

FIG. 1

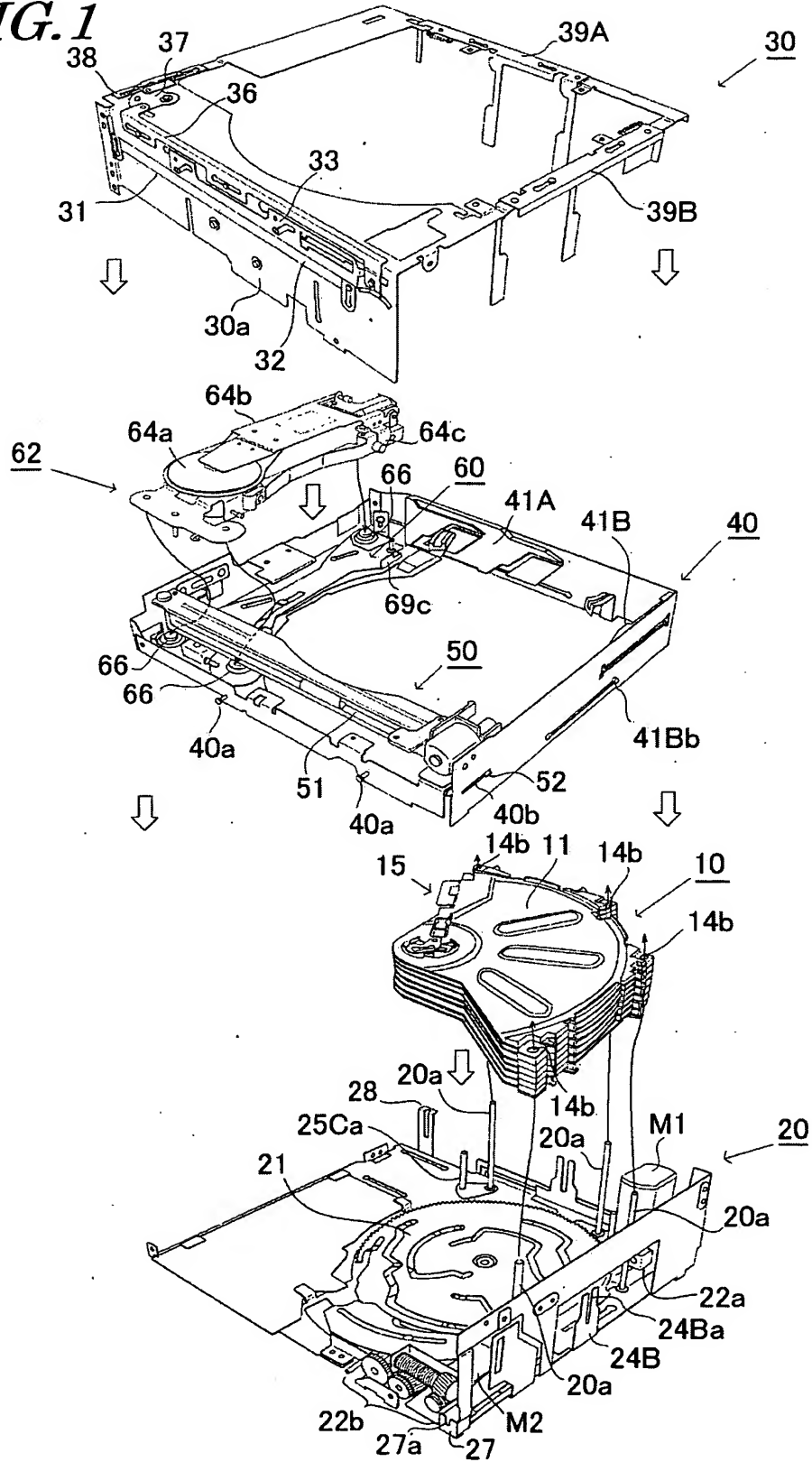


FIG. 2

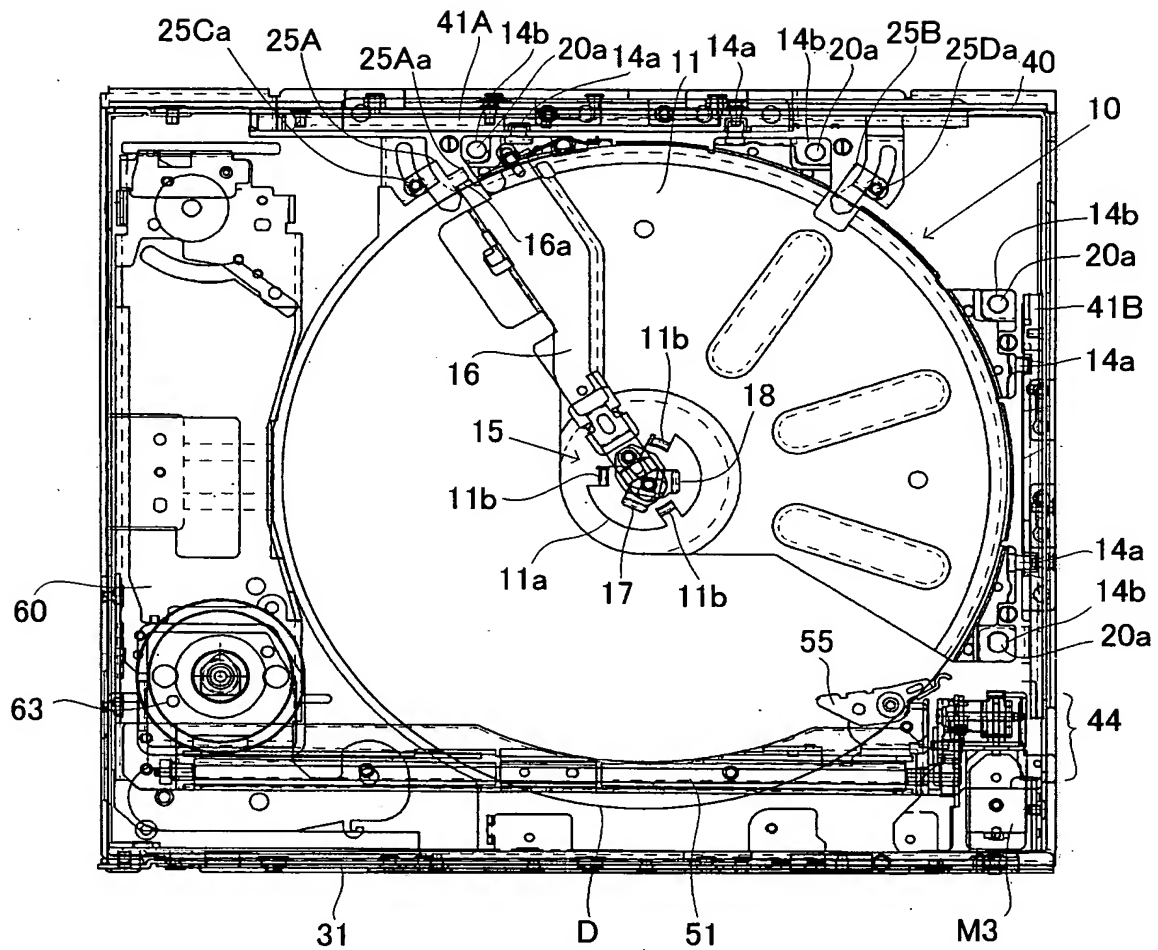
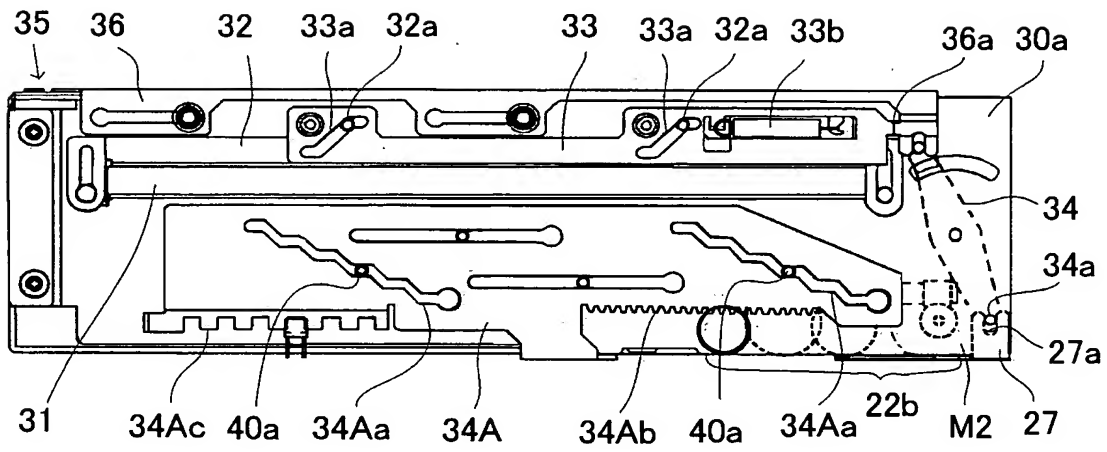


FIG. 4



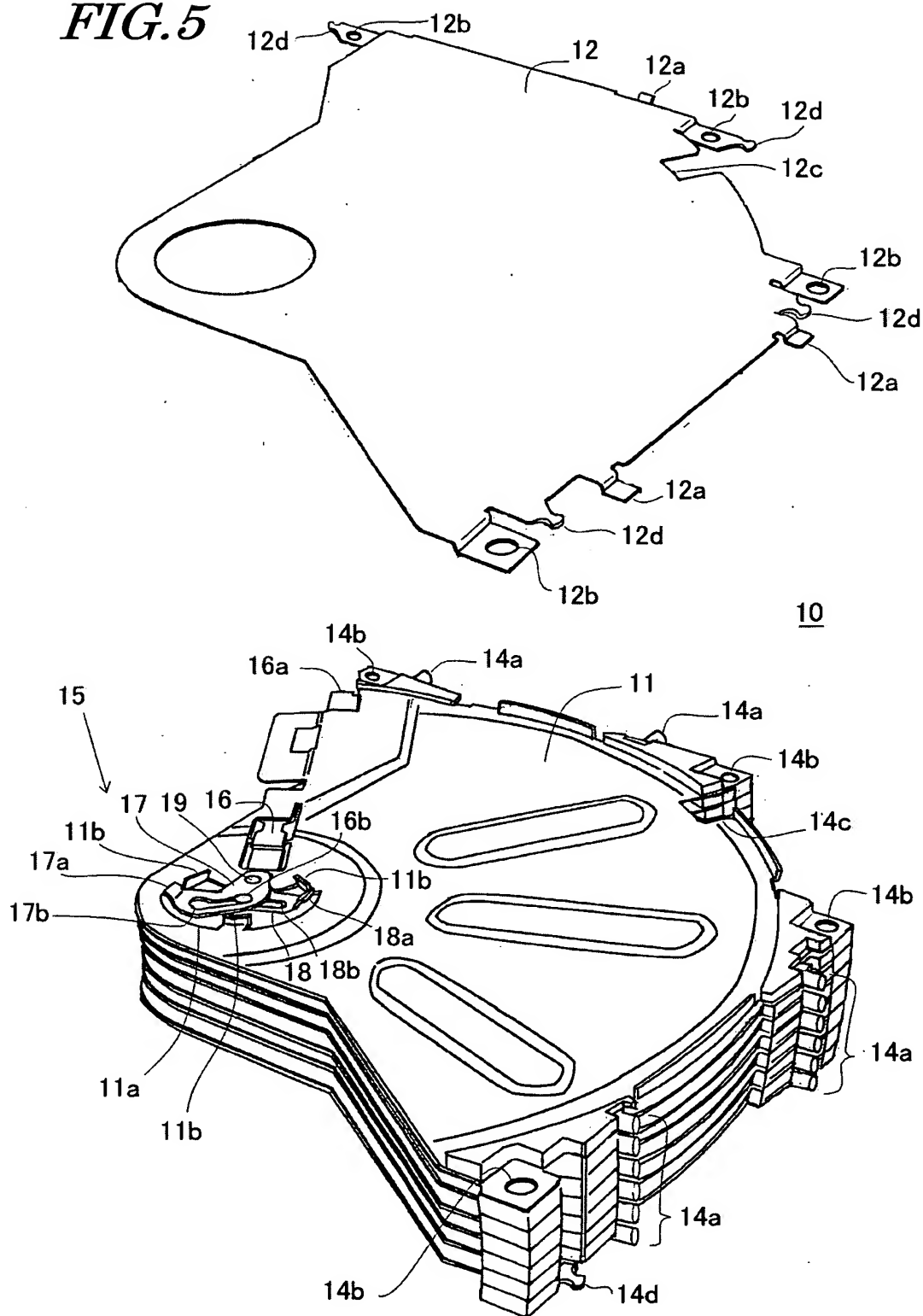


FIG. 6

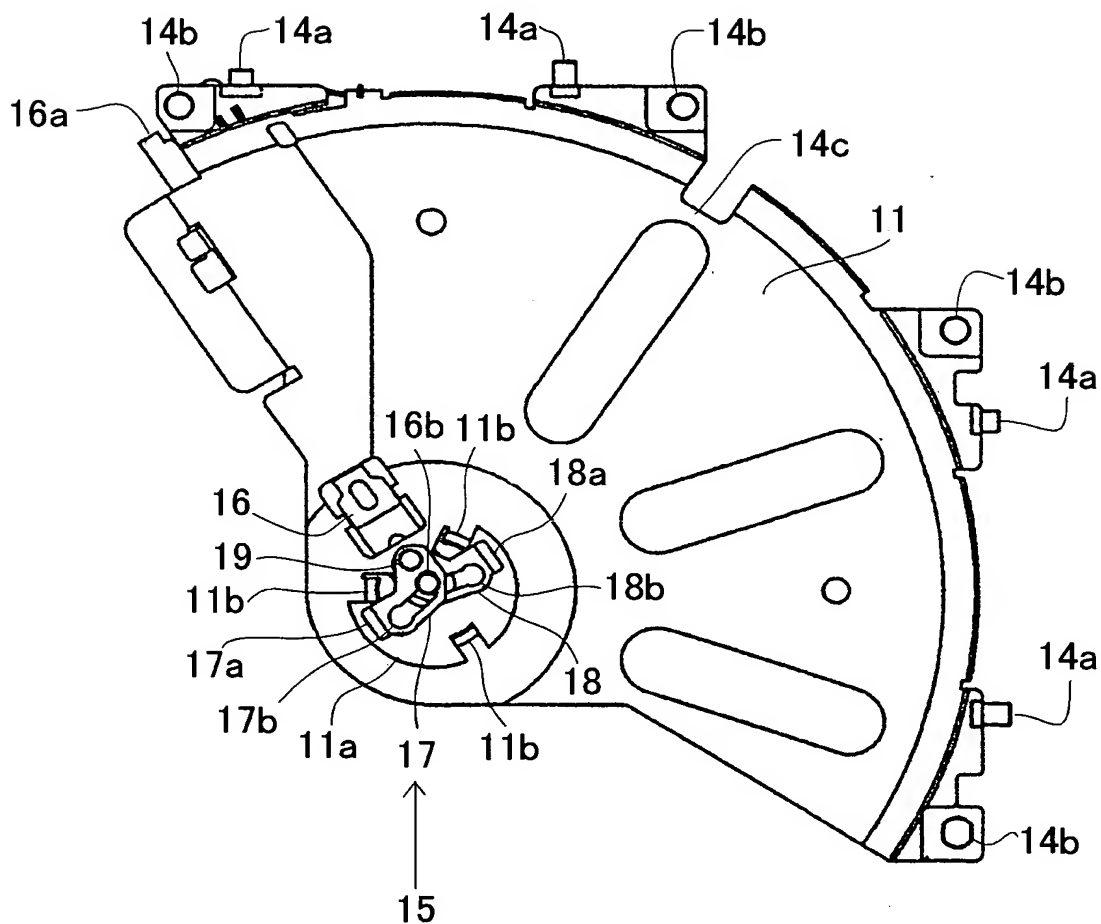


FIG. 7

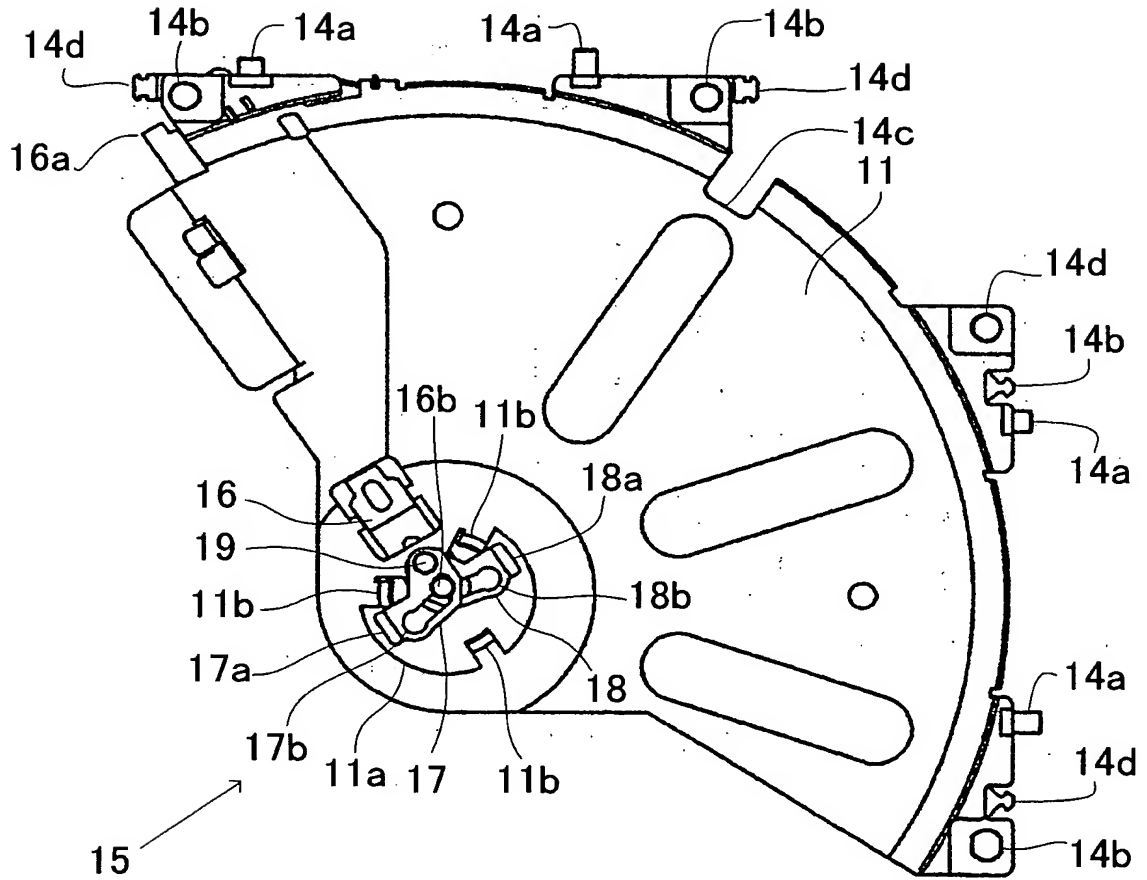


FIG. 8

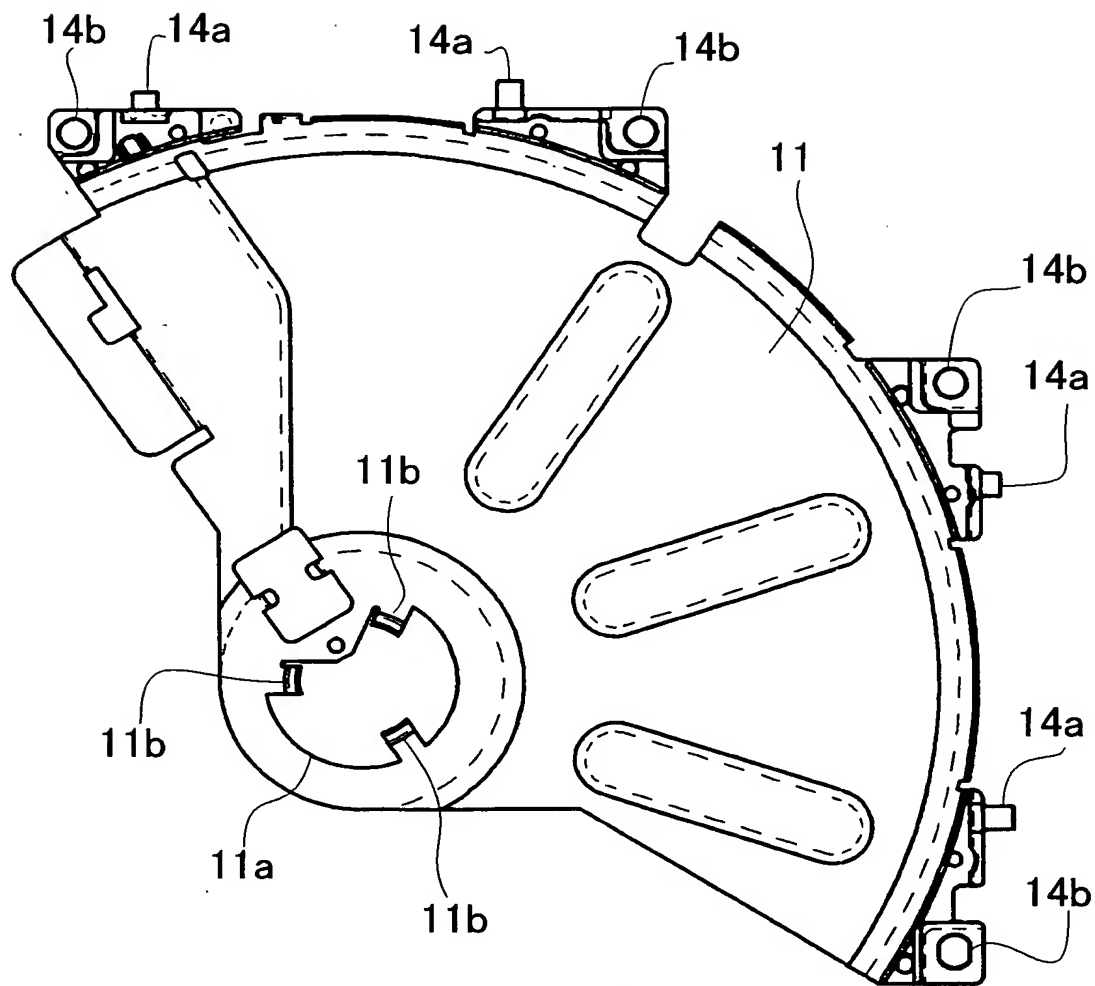


FIG. 9

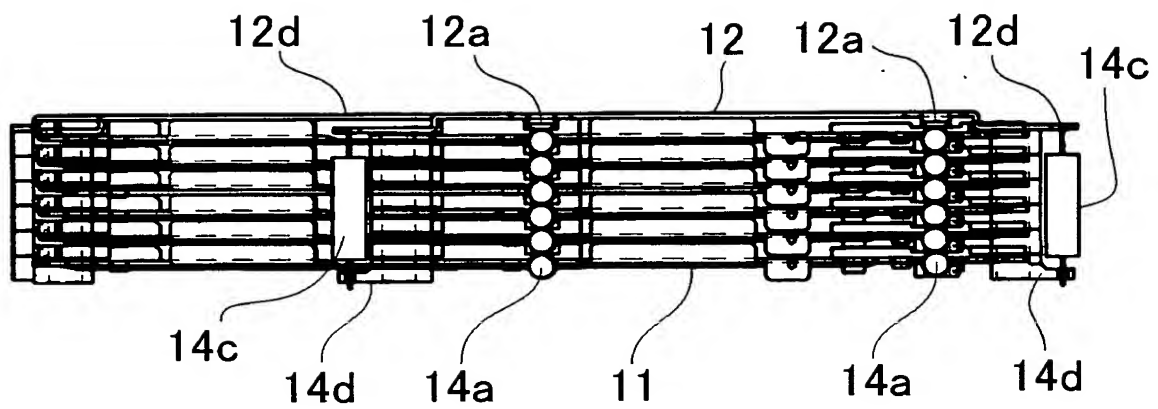


FIG. 10

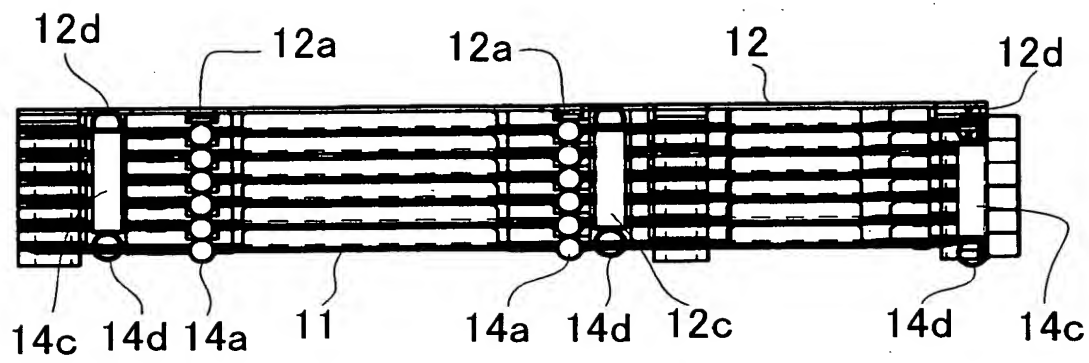


FIG. 11

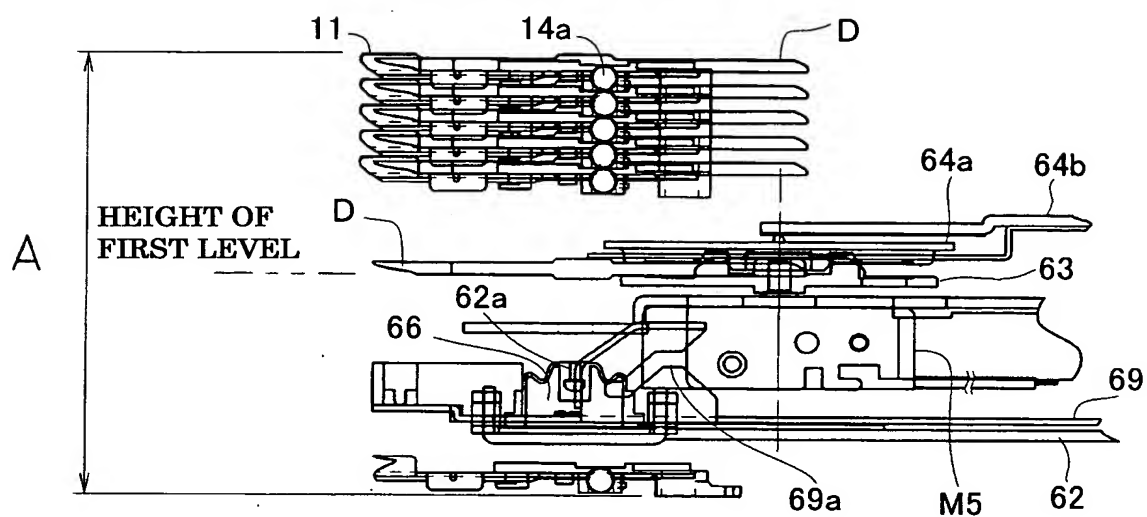


FIG. 12

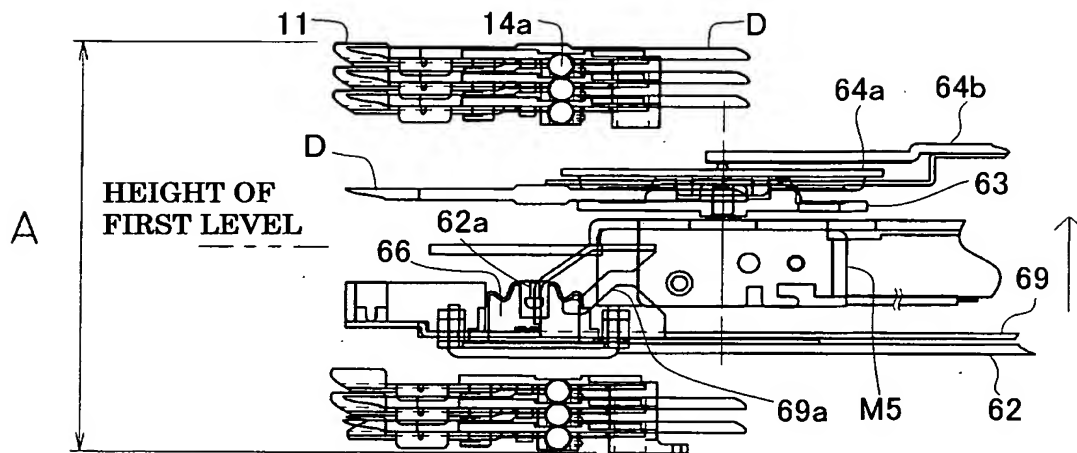


FIG. 13

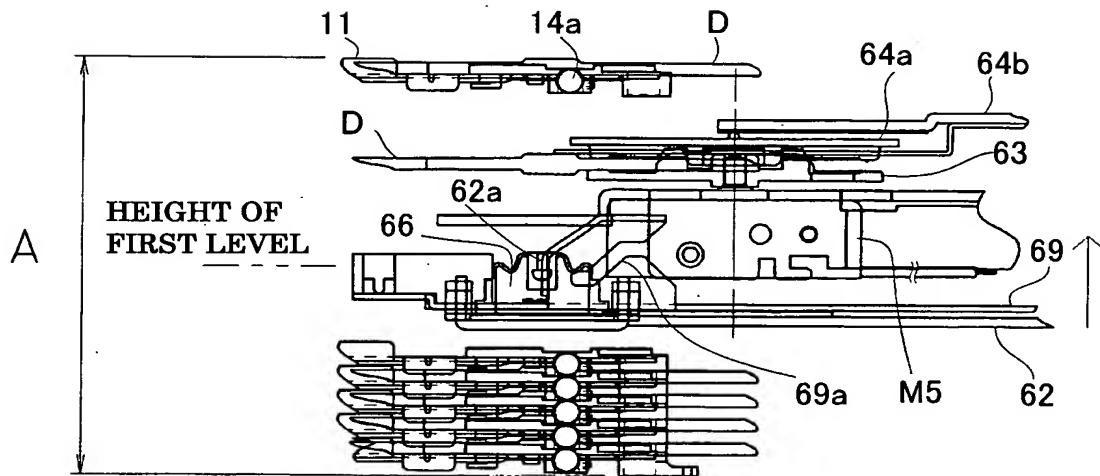
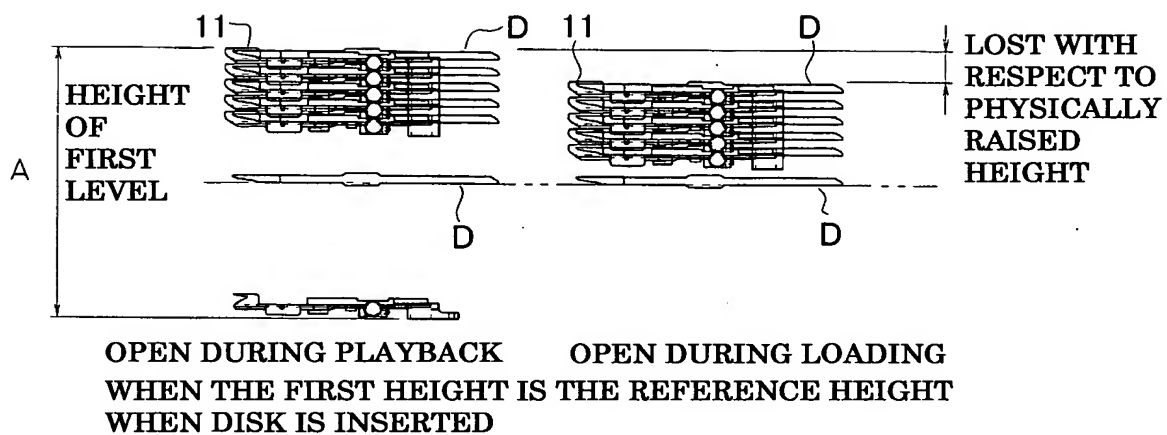


FIG. 14



The diagram shows two cross-sectional views of a disk assembly. The left view is labeled "OPEN DURING PLAYBACK" and the right view is labeled "OPEN DURING LOADING". Both views show a stack of disks with a central hub. A vertical dimension line on the far left indicates the total height of the assembly, labeled "A". A horizontal dashed line across both views represents the "HEIGHT OF FIRST LEVEL". A vertical double-headed arrow between the top of the disk stack and the first level line is labeled "D". This distance "D" is shown to increase from the playback state to the loading state, as indicated by the text "DIMENSION AT WHICH DISK MOVEMENT AMOUNT MUST BE INCREASED".

DIMENSION AT WHICH DISK MOVEMENT AMOUNT MUST BE INCREASED

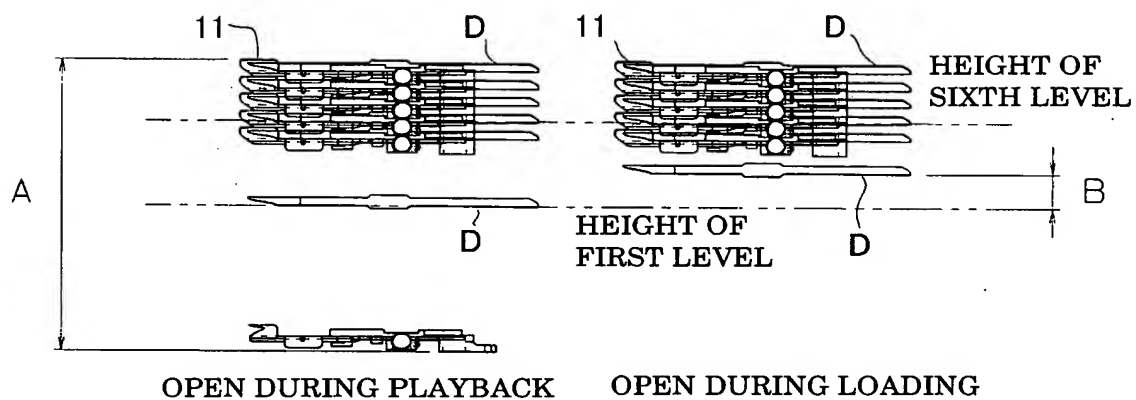
HEIGHT OF SIXTH LEVEL

HEIGHT OF FIRST LEVEL

OPEN DURING PLAYBACK OPEN DURING LOADING

**WHEN THE SIXTH HEIGHT IS THE REFERENCE
HEIGHT WHEN DISK IS INSERTED**

FIG. 16



WHEN A HEIGHT BETWEEN THE FIRST HEIGHT AND THE SIXTH
HEIGHT IS THE REFERENCE HEIGHT WHEN DISK IS INSERTED

FIG. 17

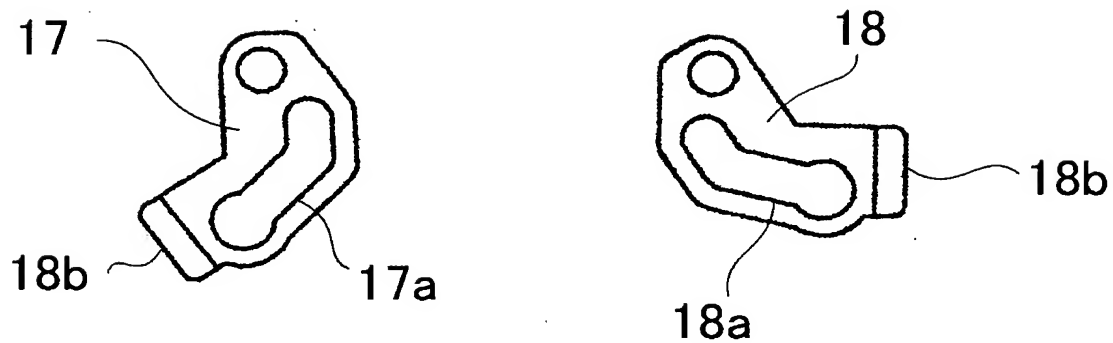


FIG. 18

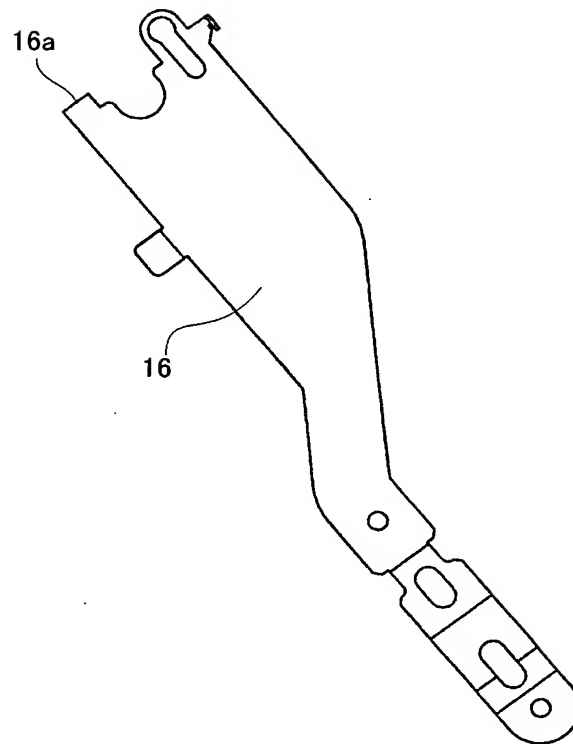


FIG. 19

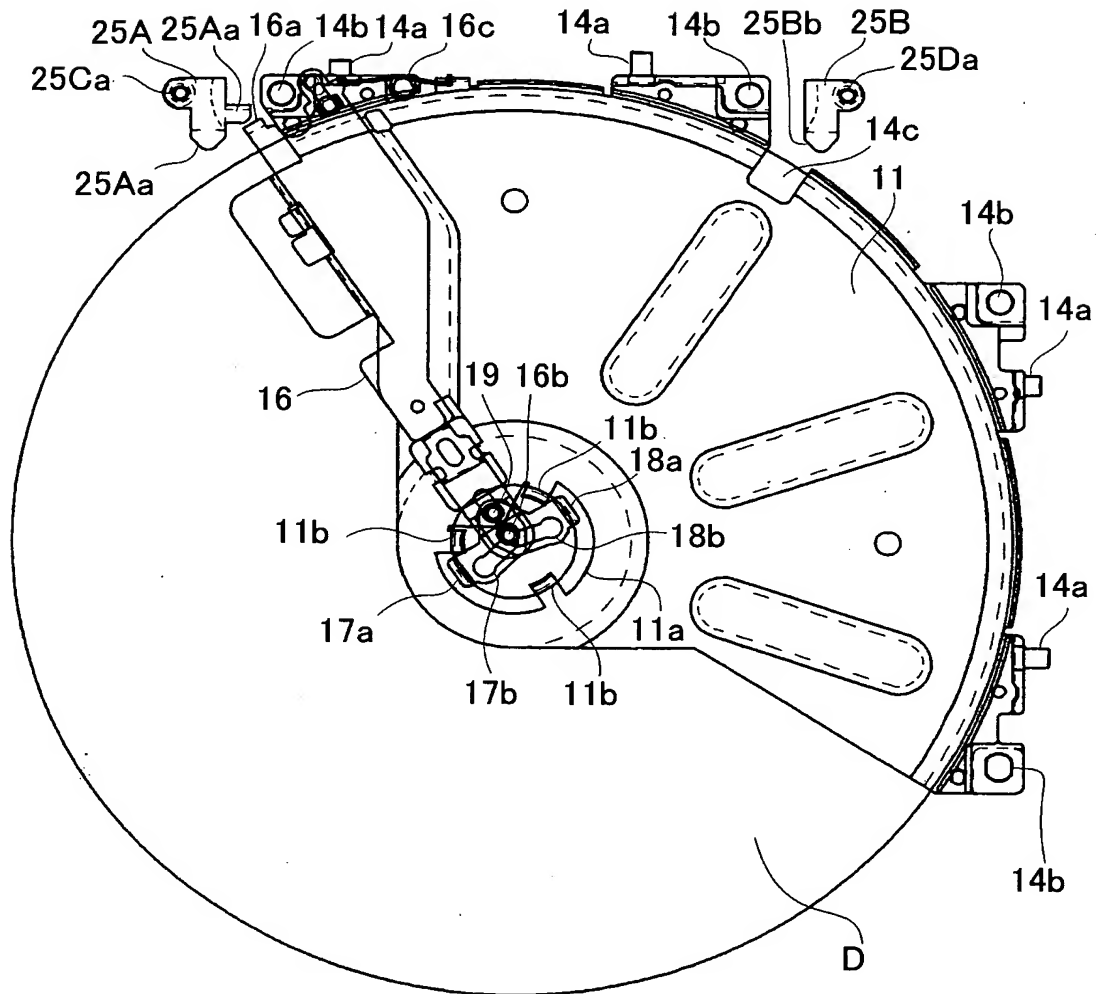


FIG. 20

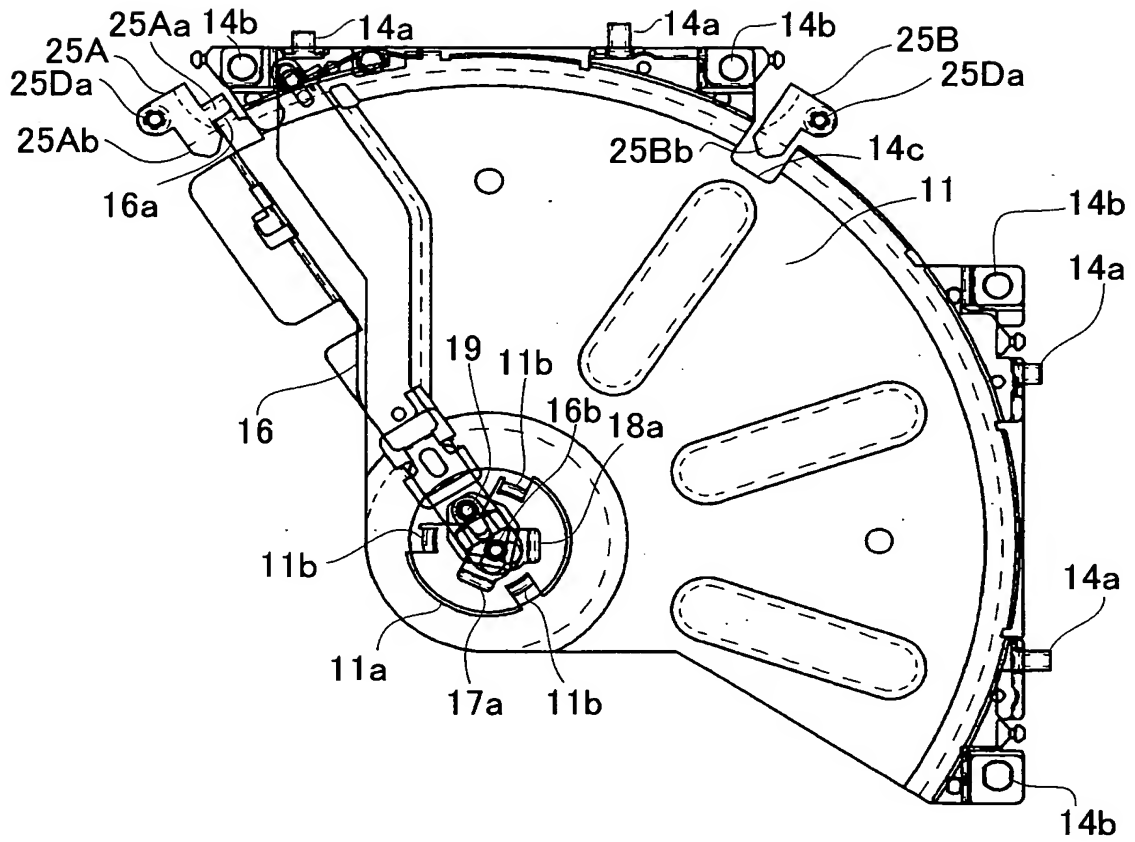




FIG. 22

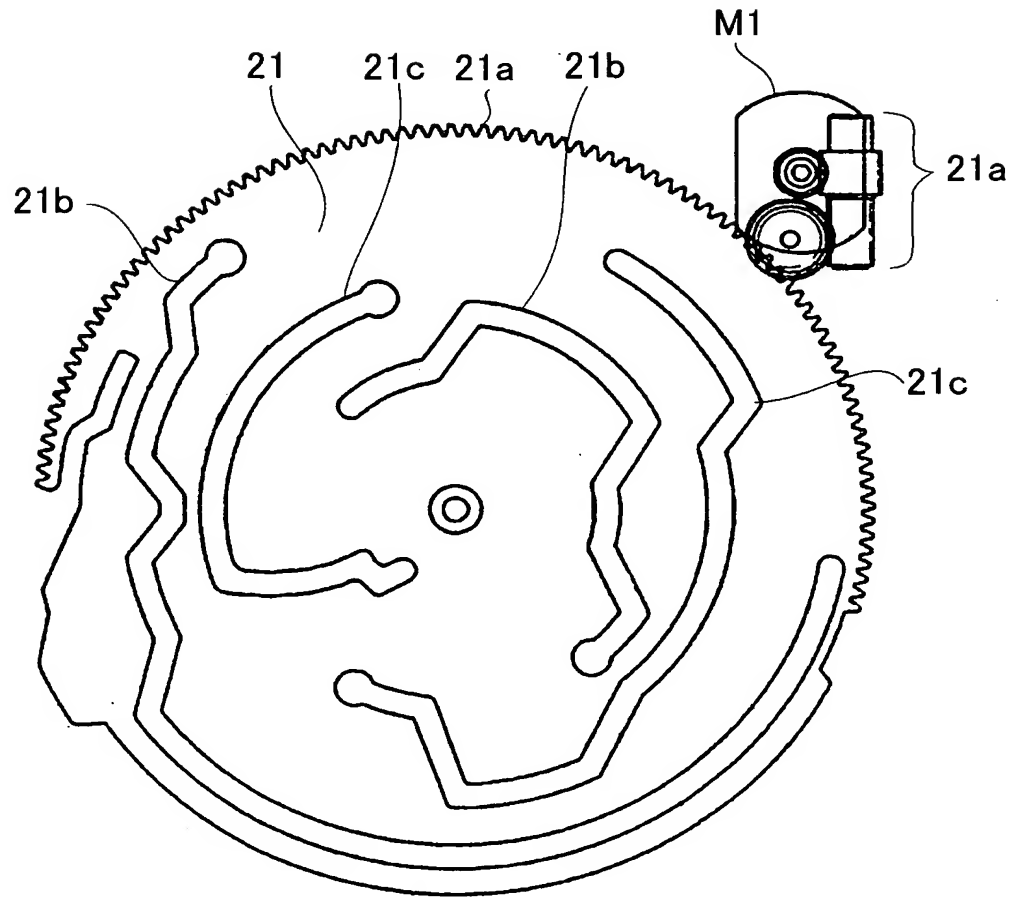


FIG. 24

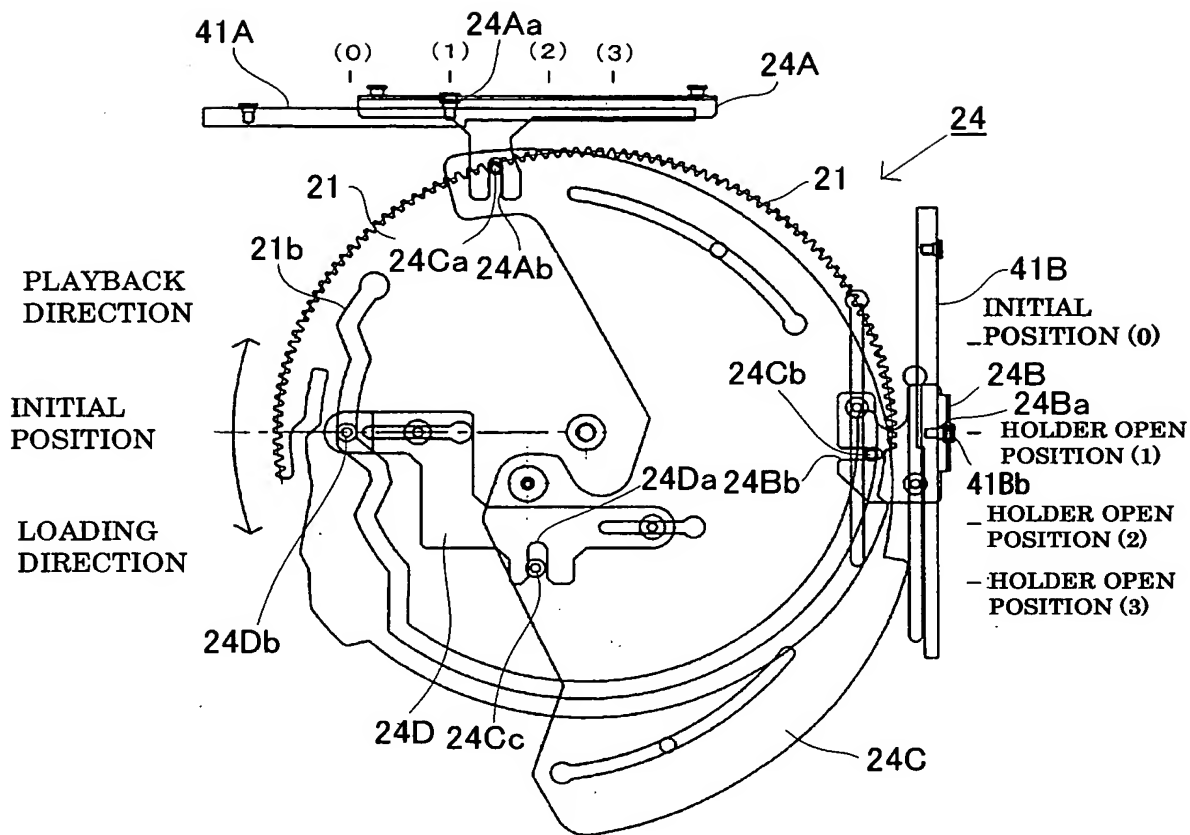


FIG. 25

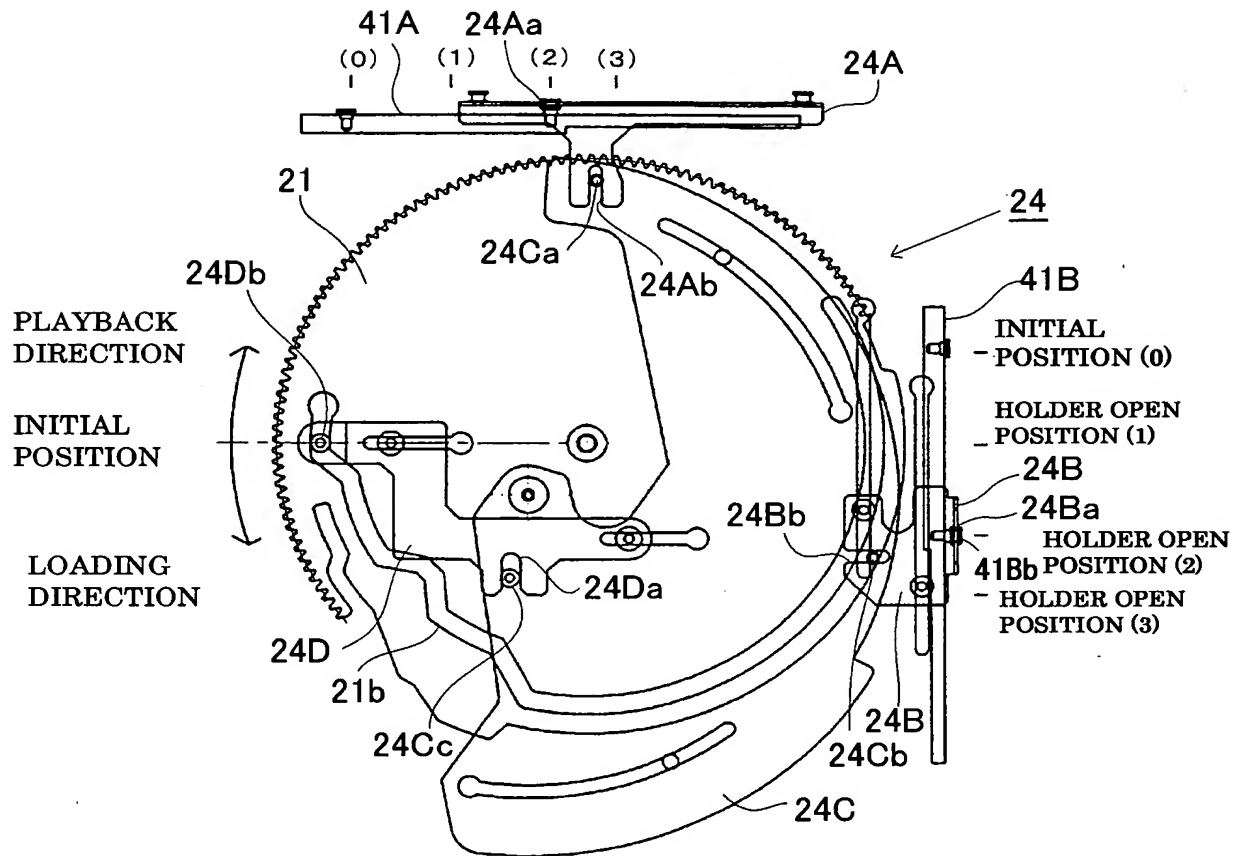


FIG. 26

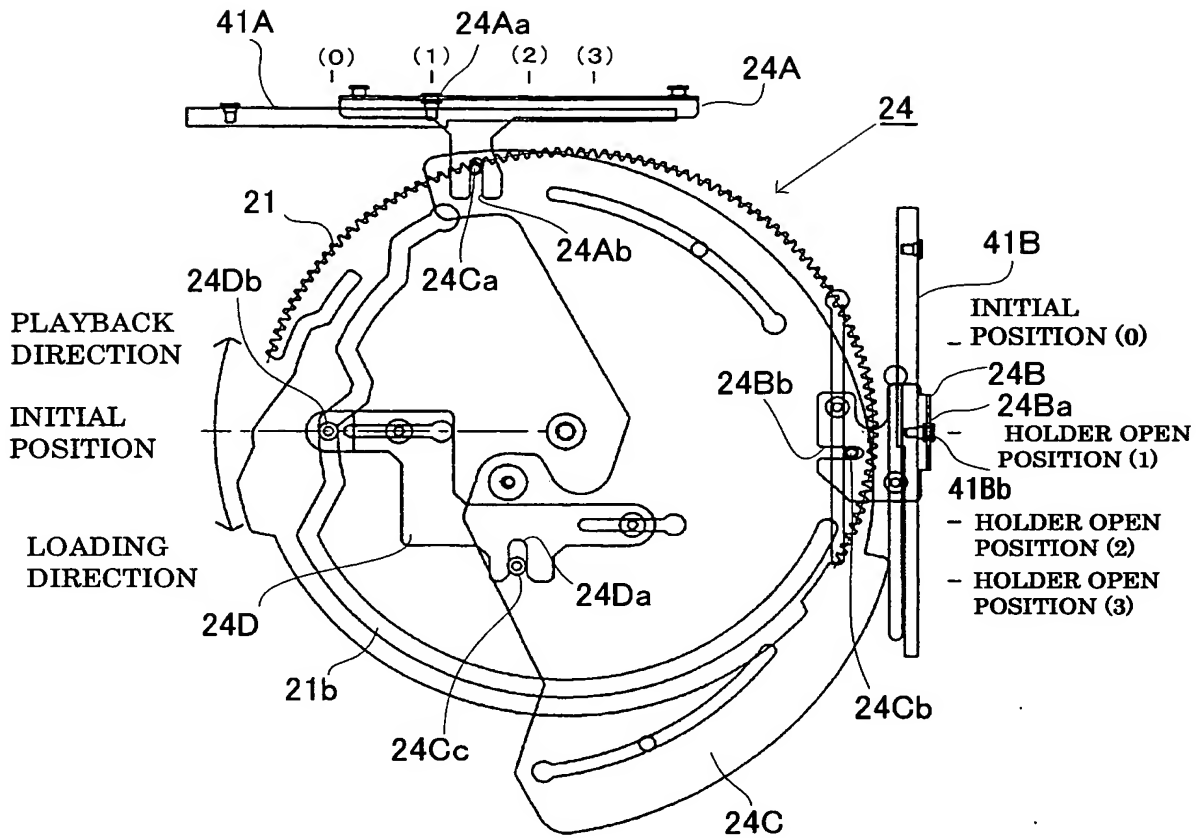


FIG. 27

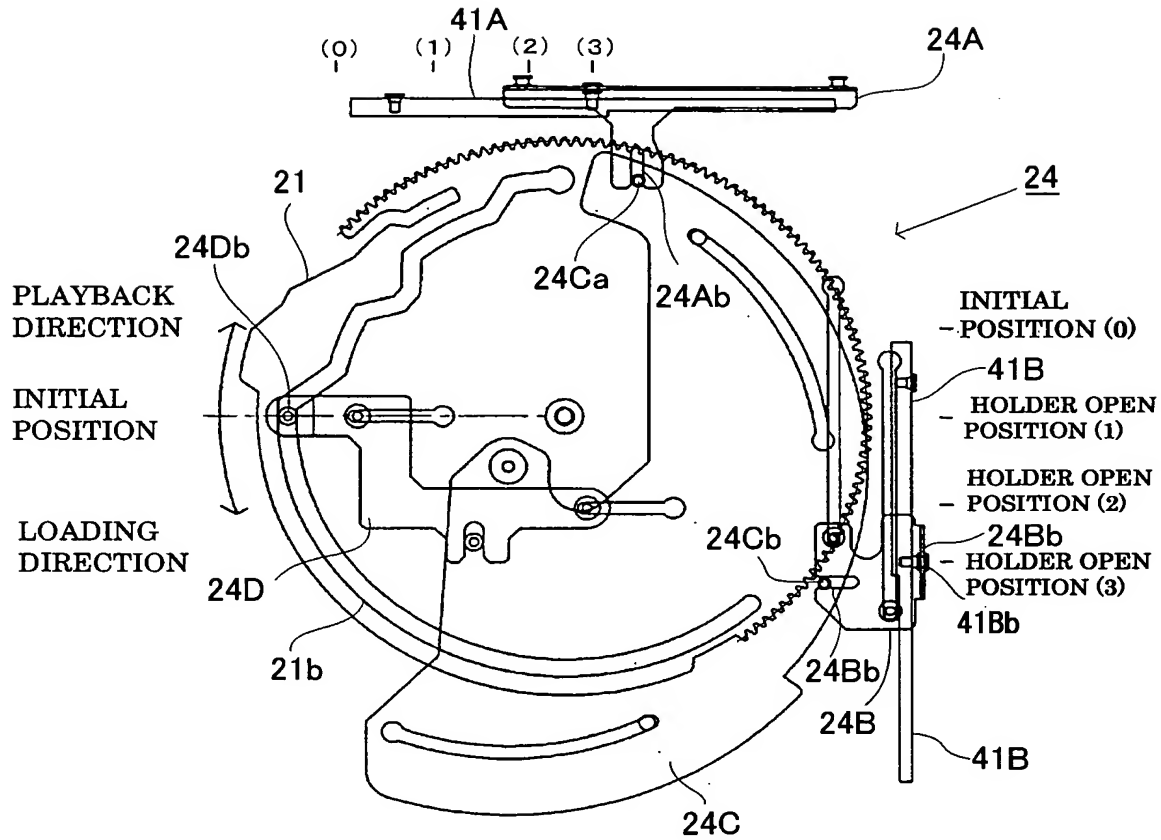


FIG. 28

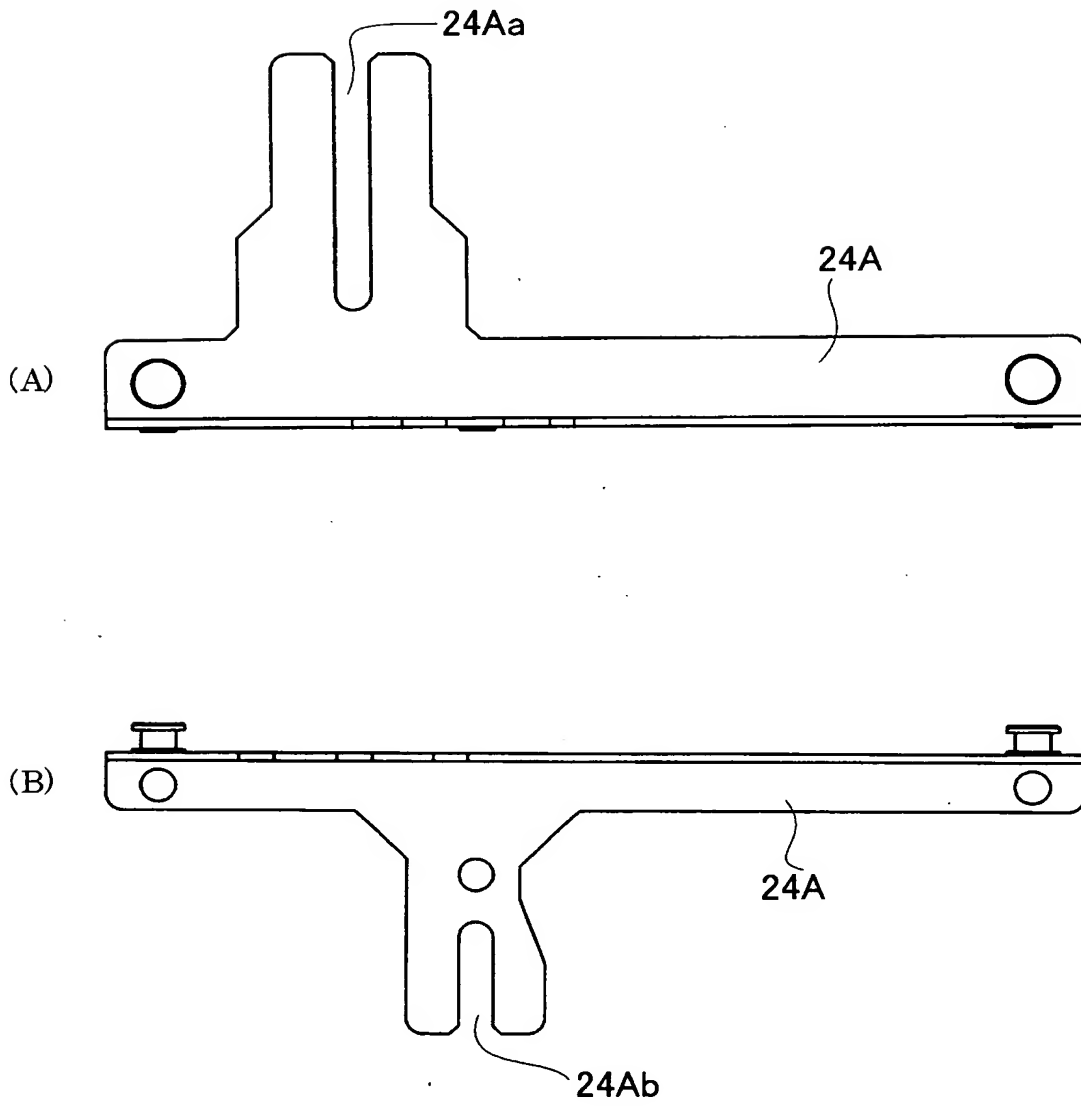


FIG. 29

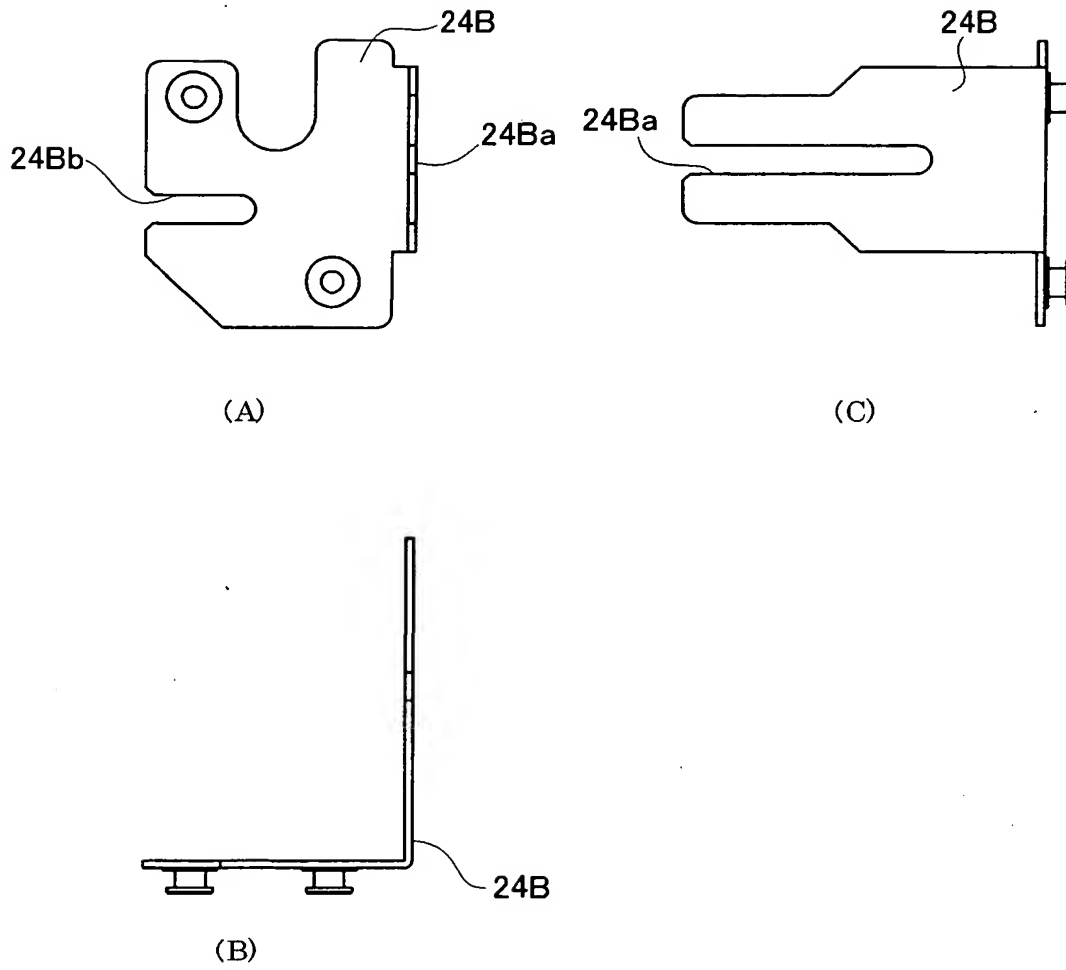


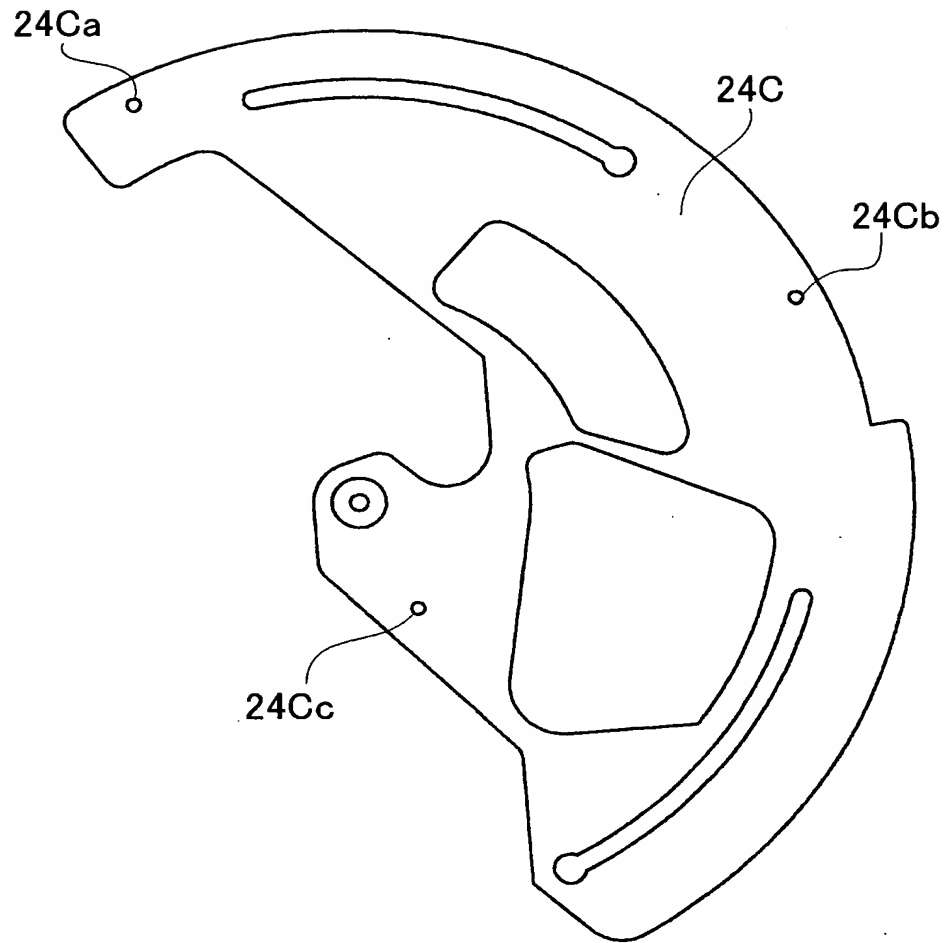
FIG. 30

FIG. 31

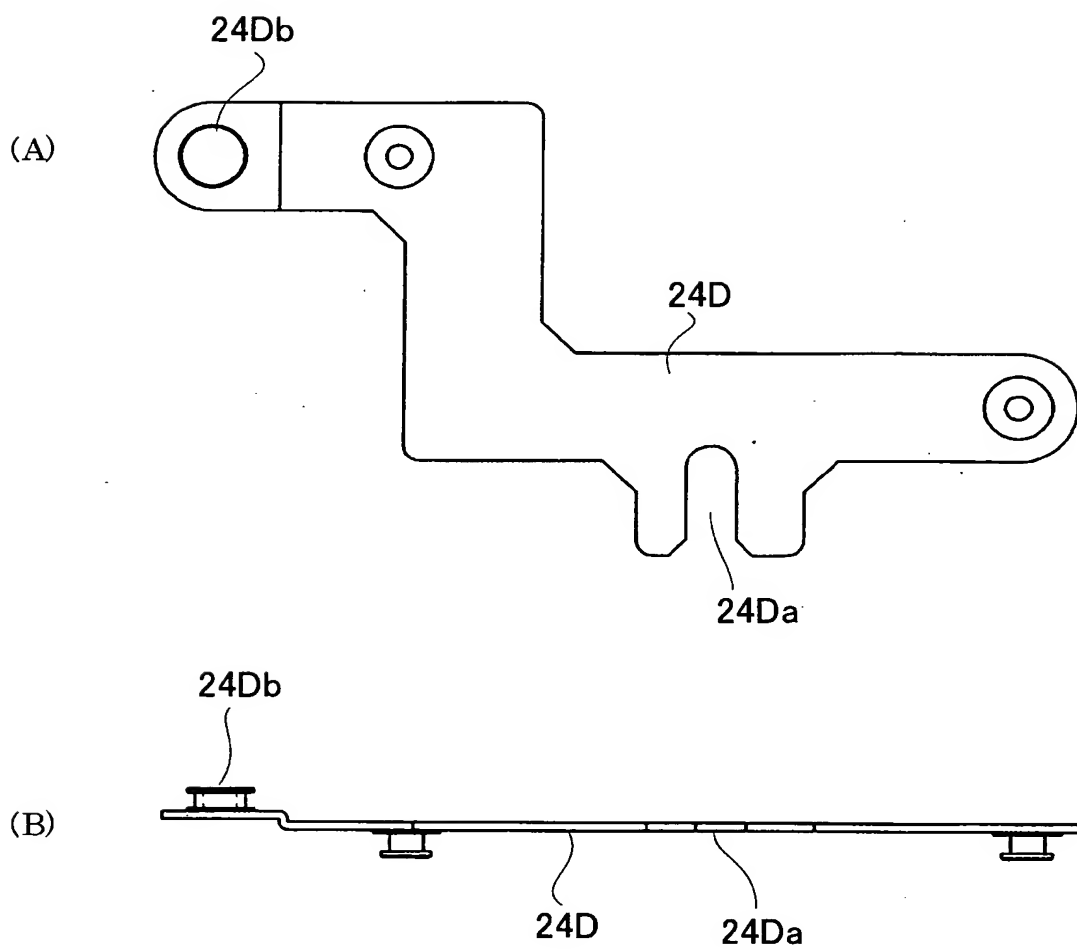


FIG. 33

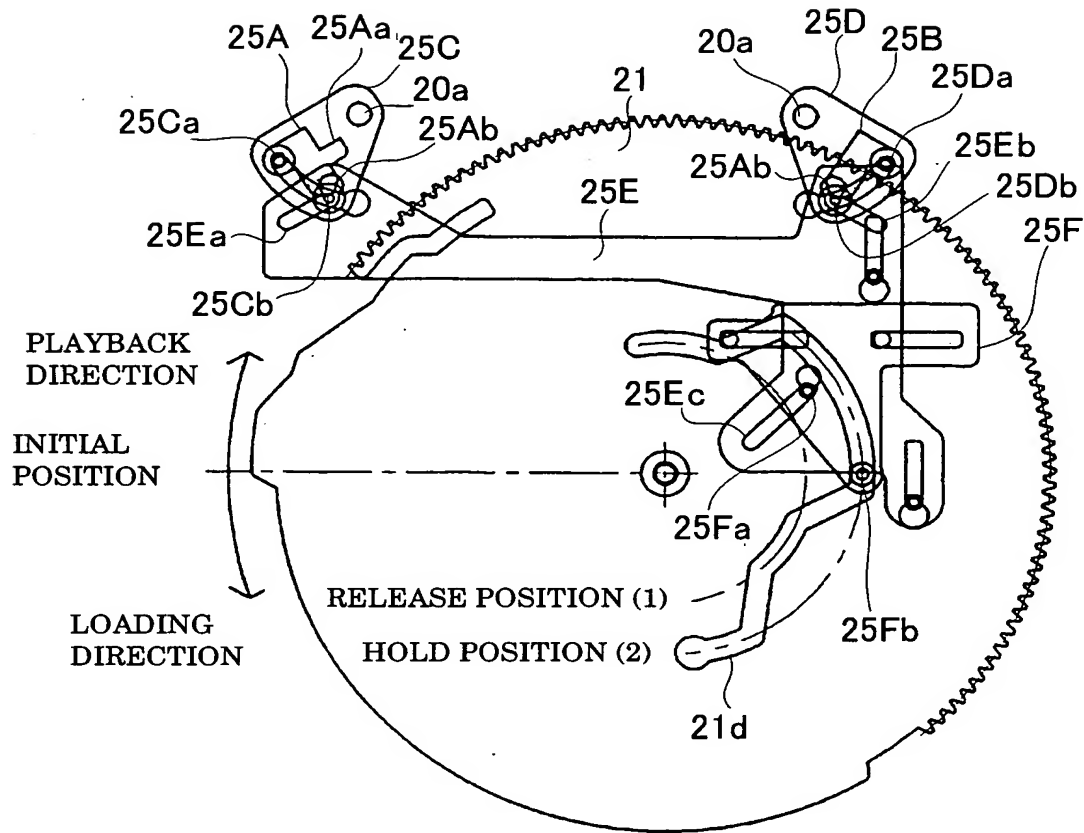


FIG. 34

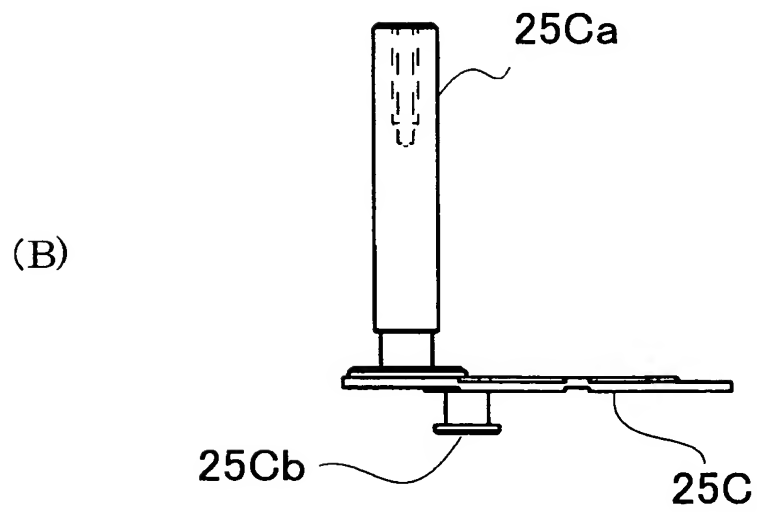
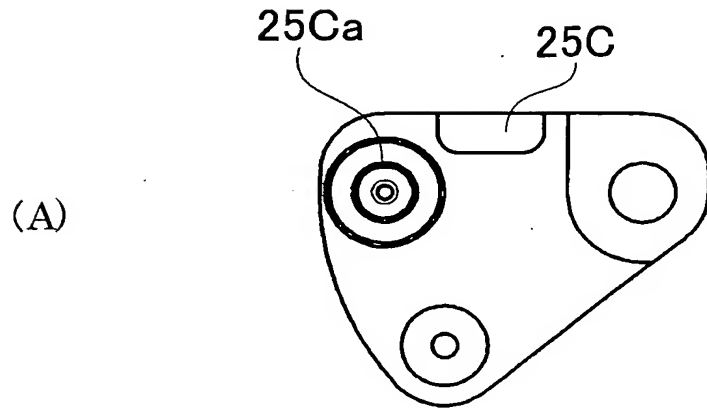


FIG. 35

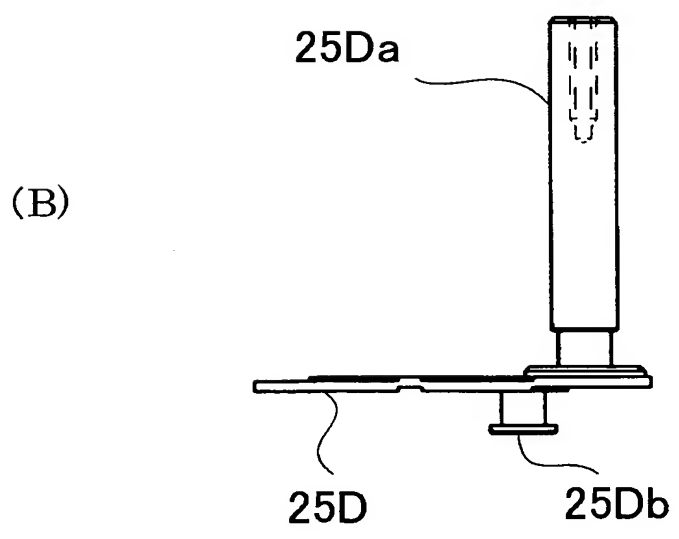
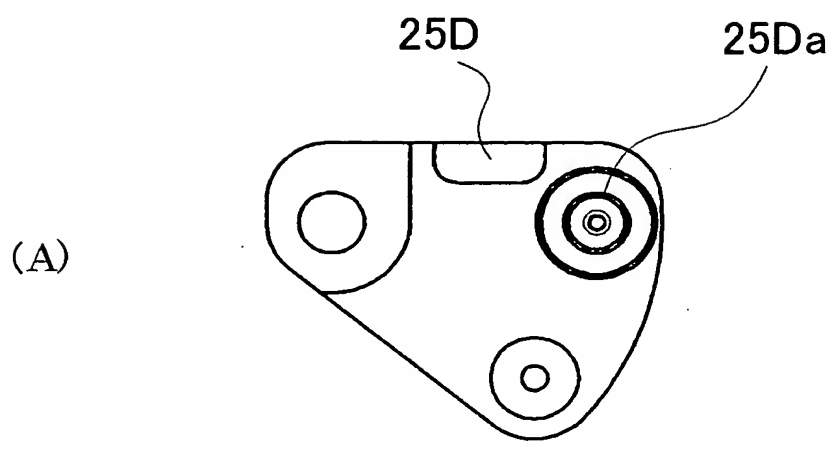


FIG. 36

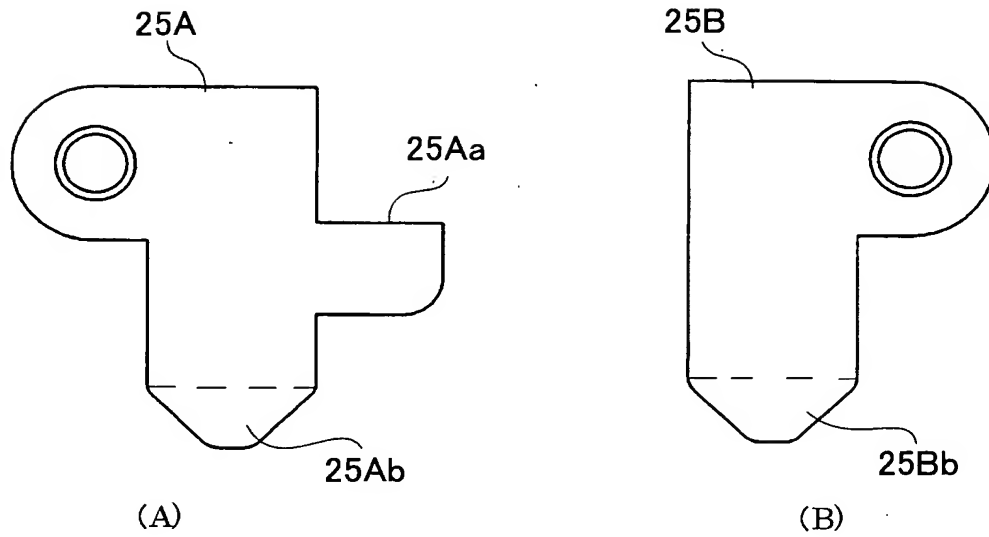


FIG. 37

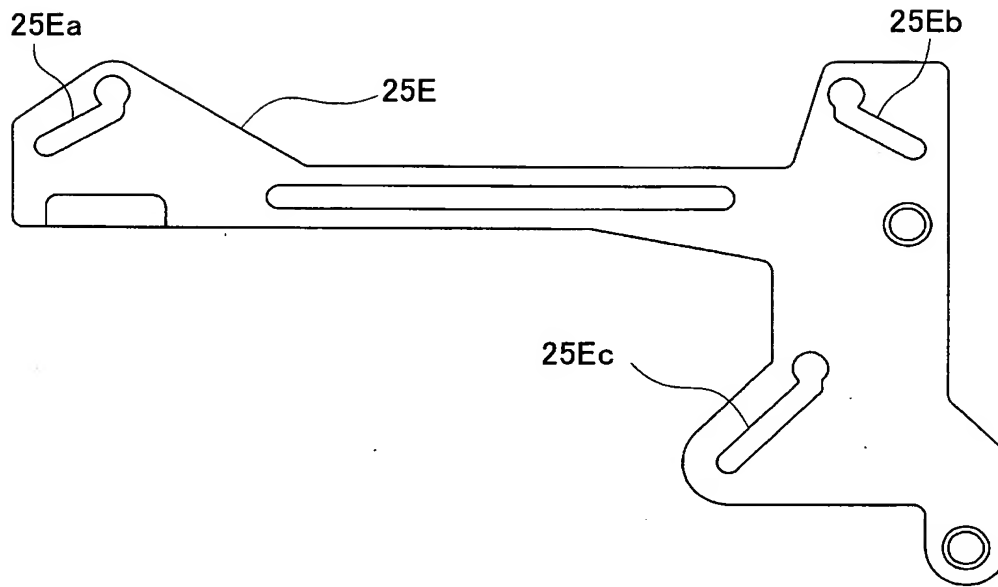


FIG. 38

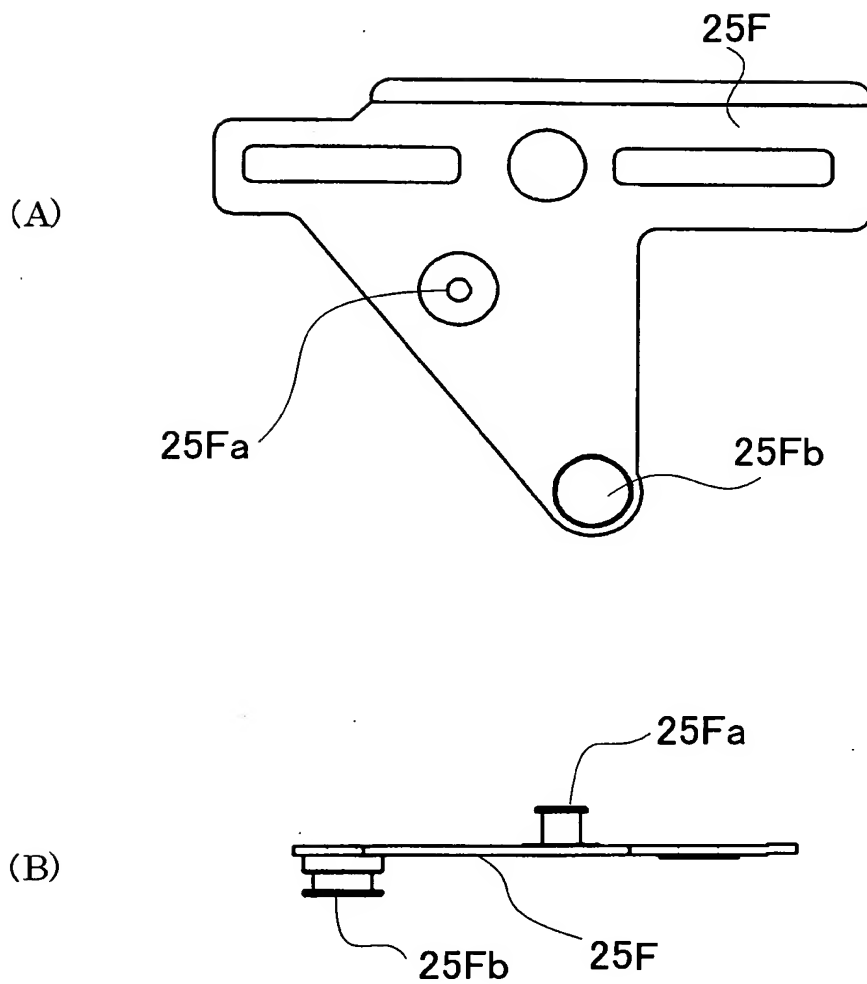


FIG. 39

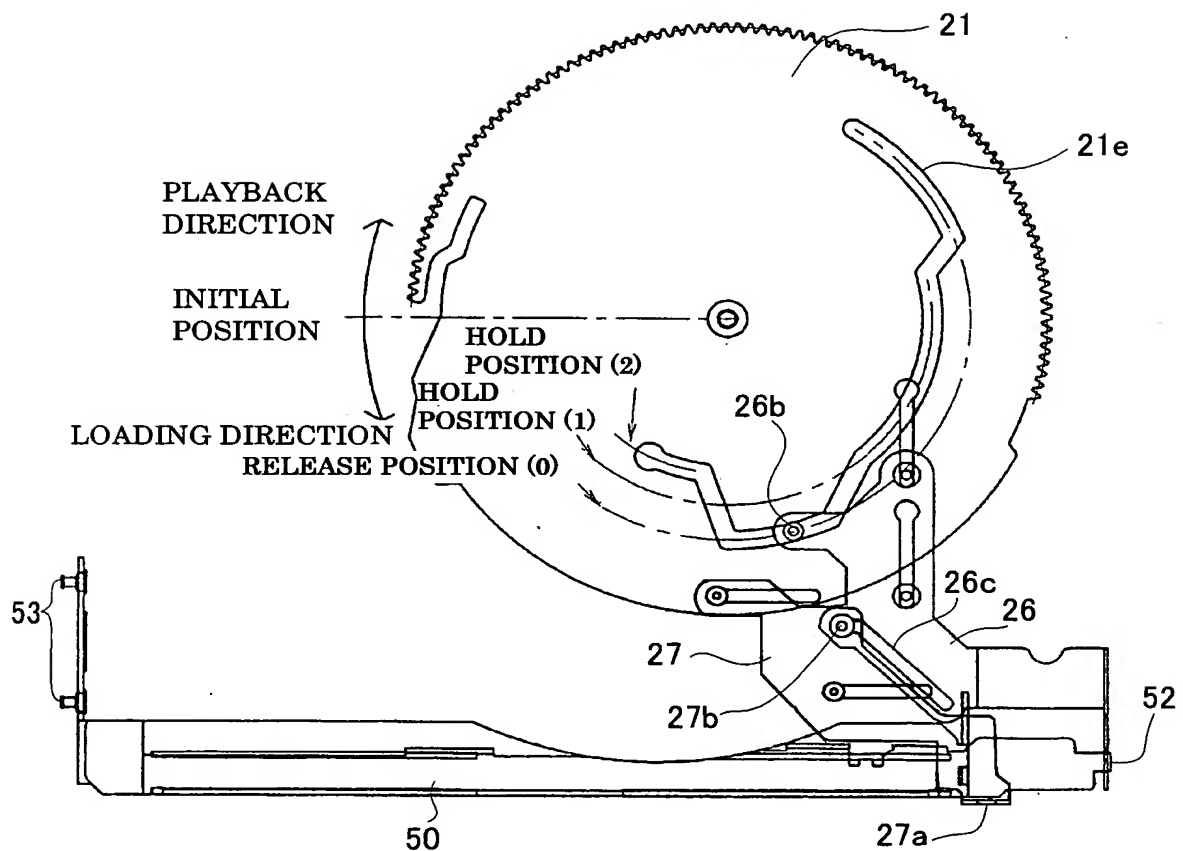


FIG. 42

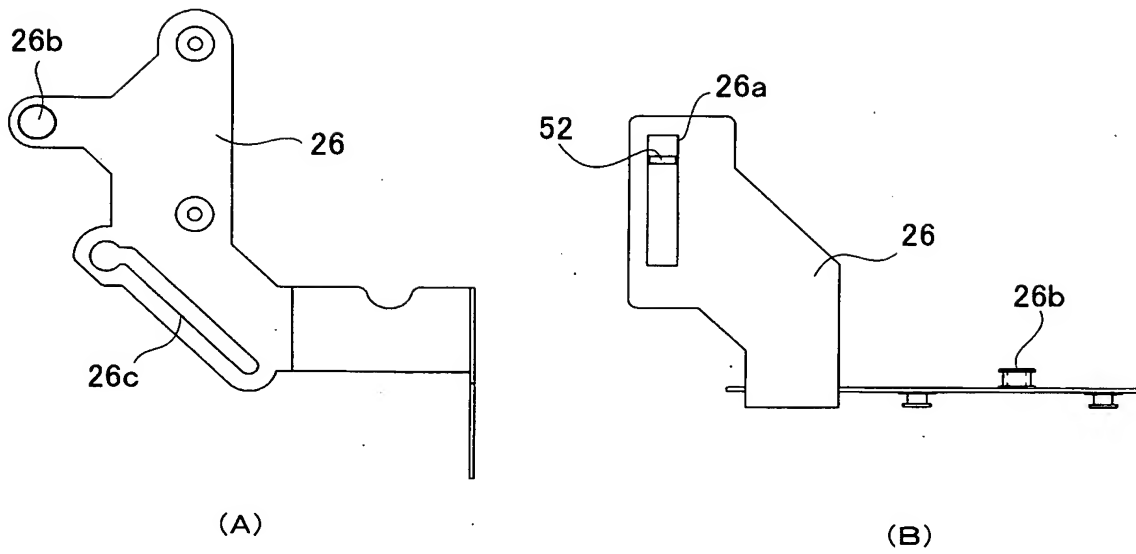


FIG. 43

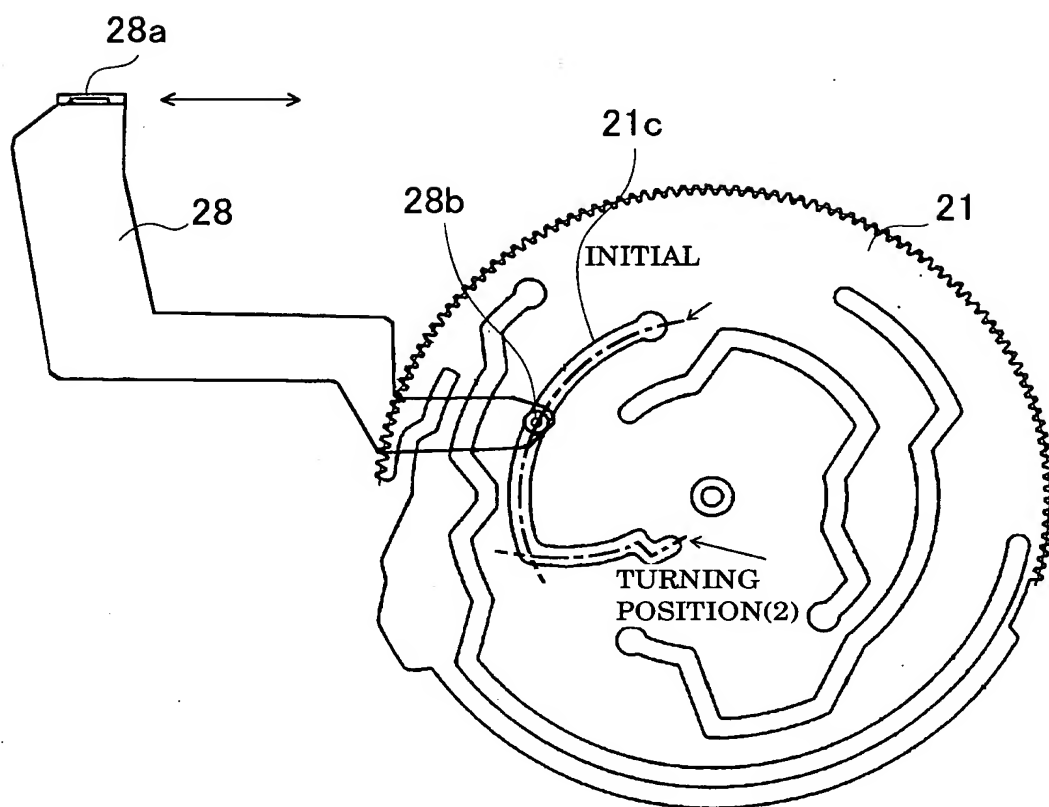


FIG. 44

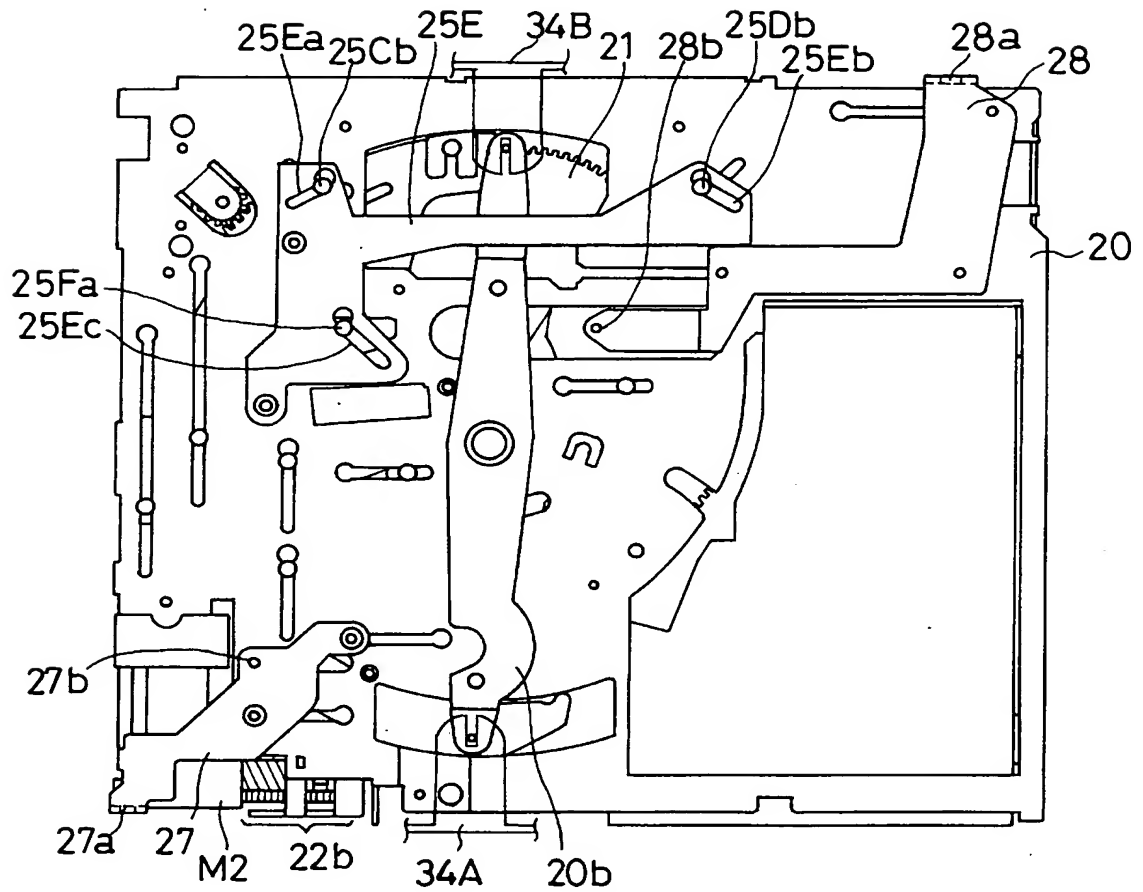


FIG. 45

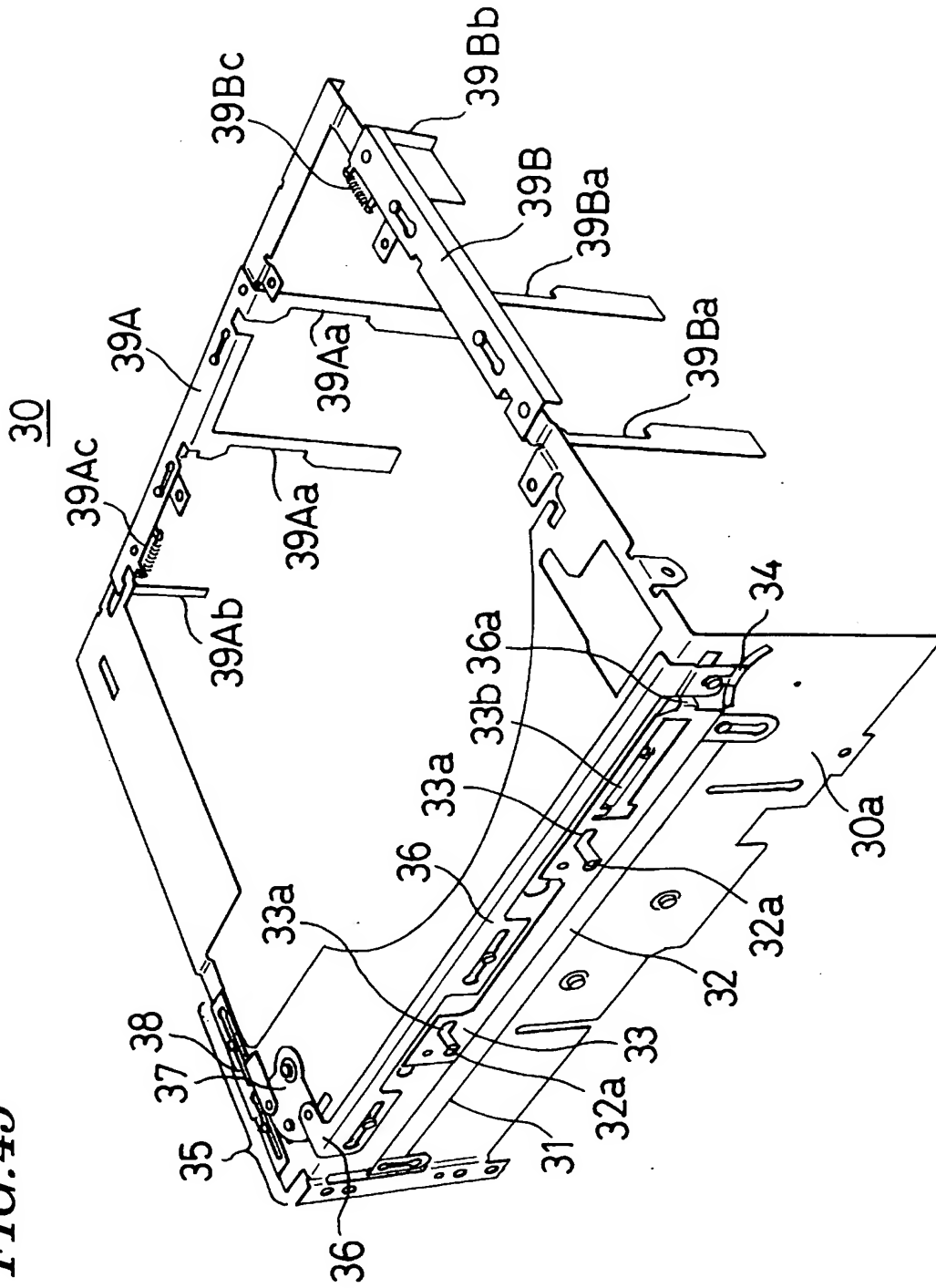


FIG. 46

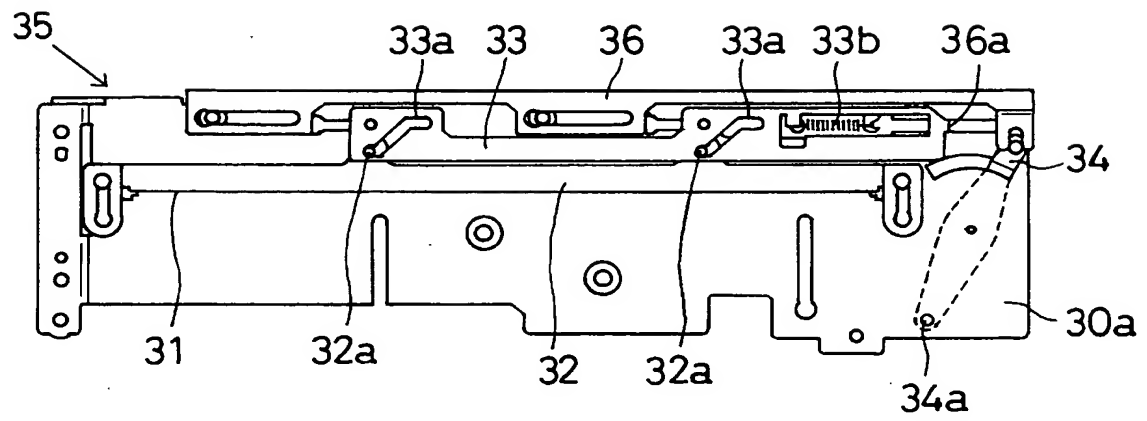


FIG. 47

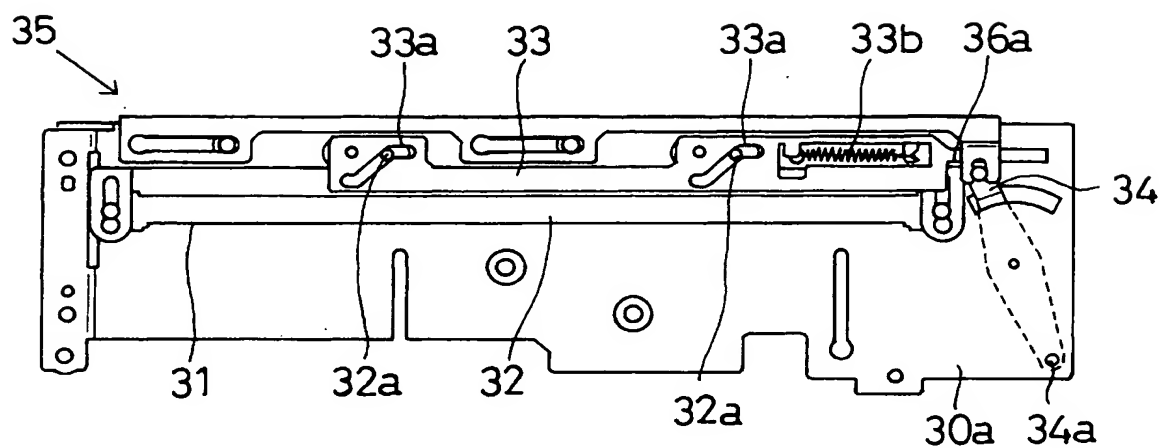


FIG. 48

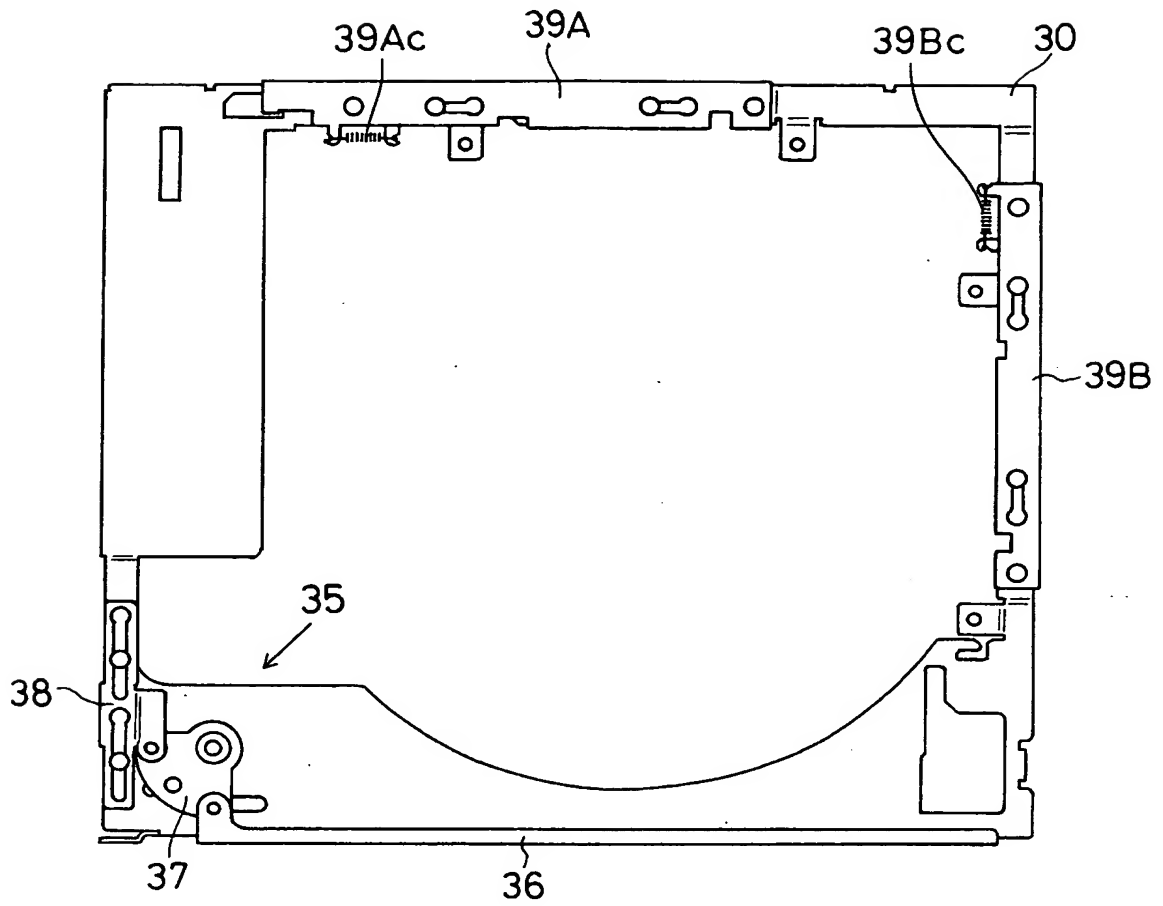


FIG. 49

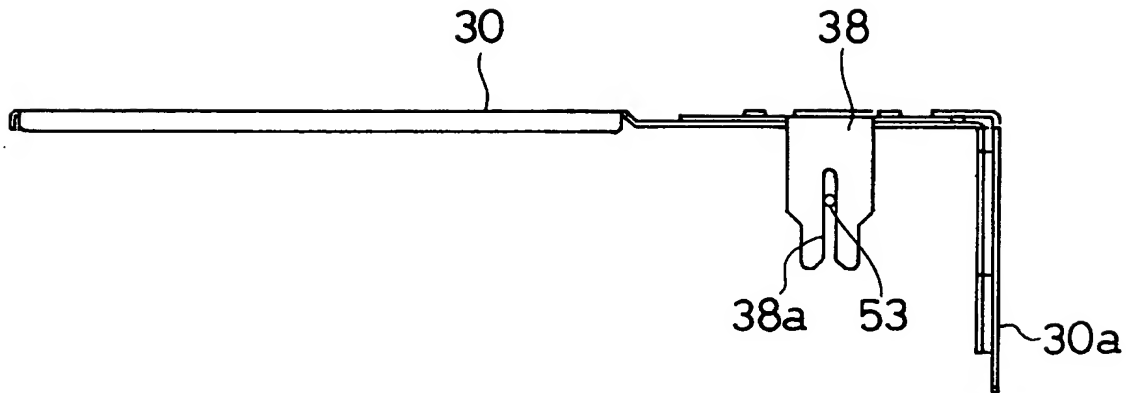


FIG. 50

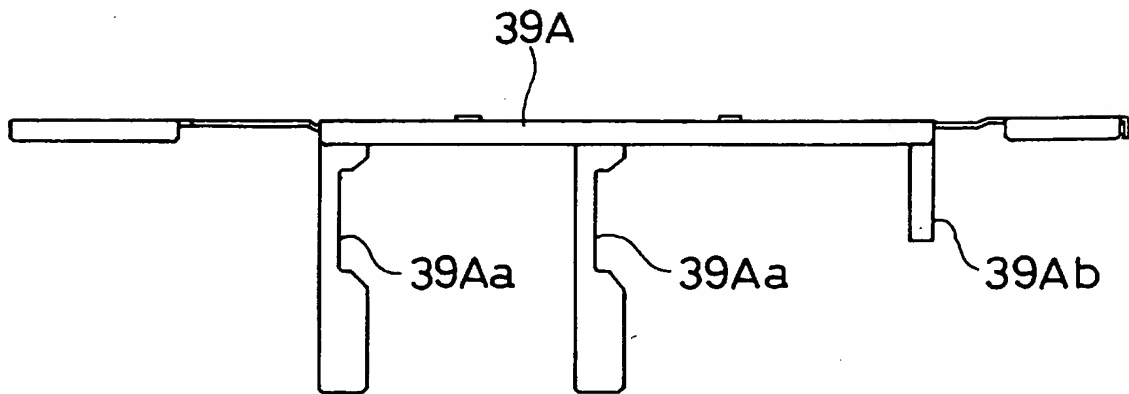


FIG. 51

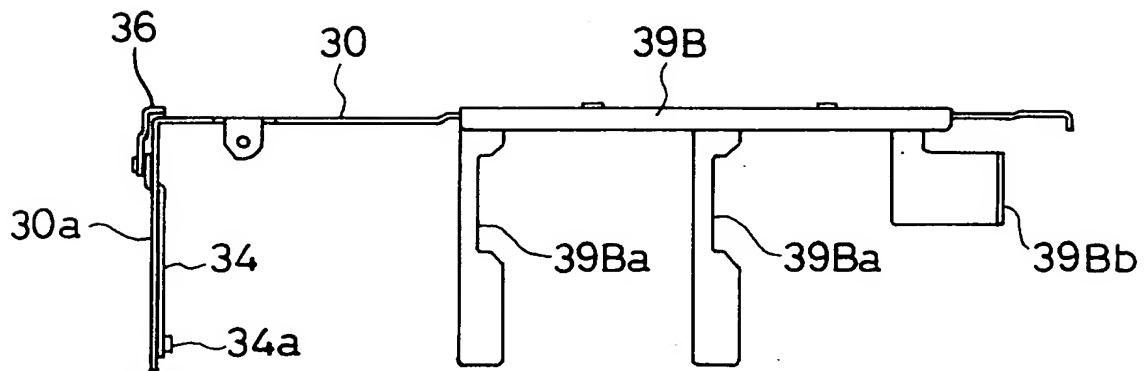




FIG. 53

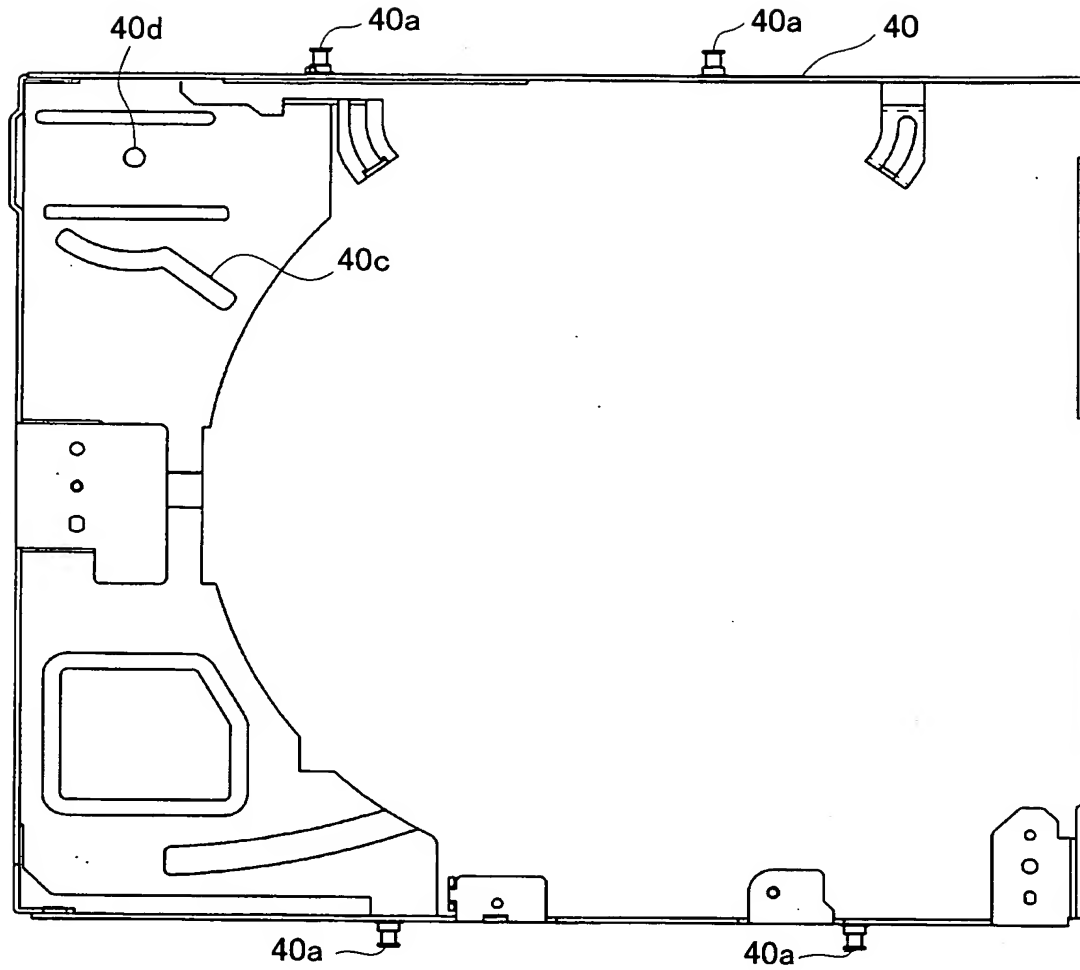


FIG. 54

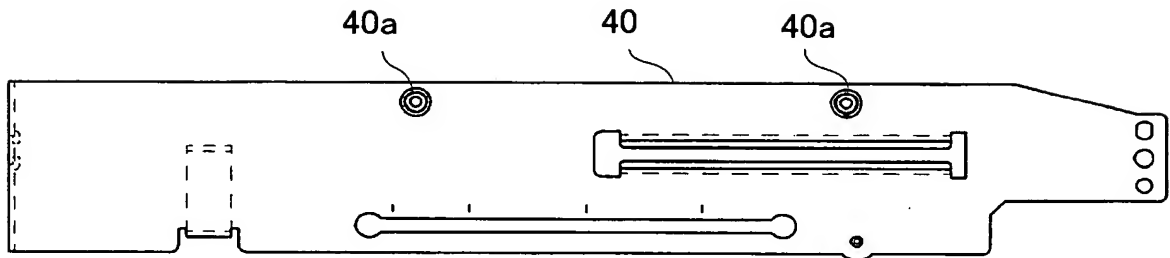
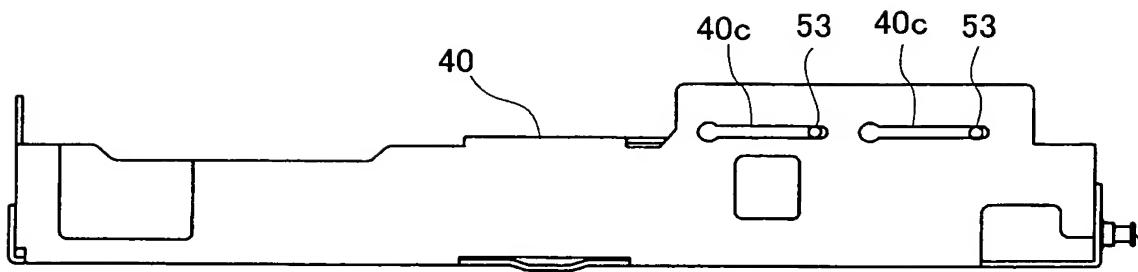


FIG. 55



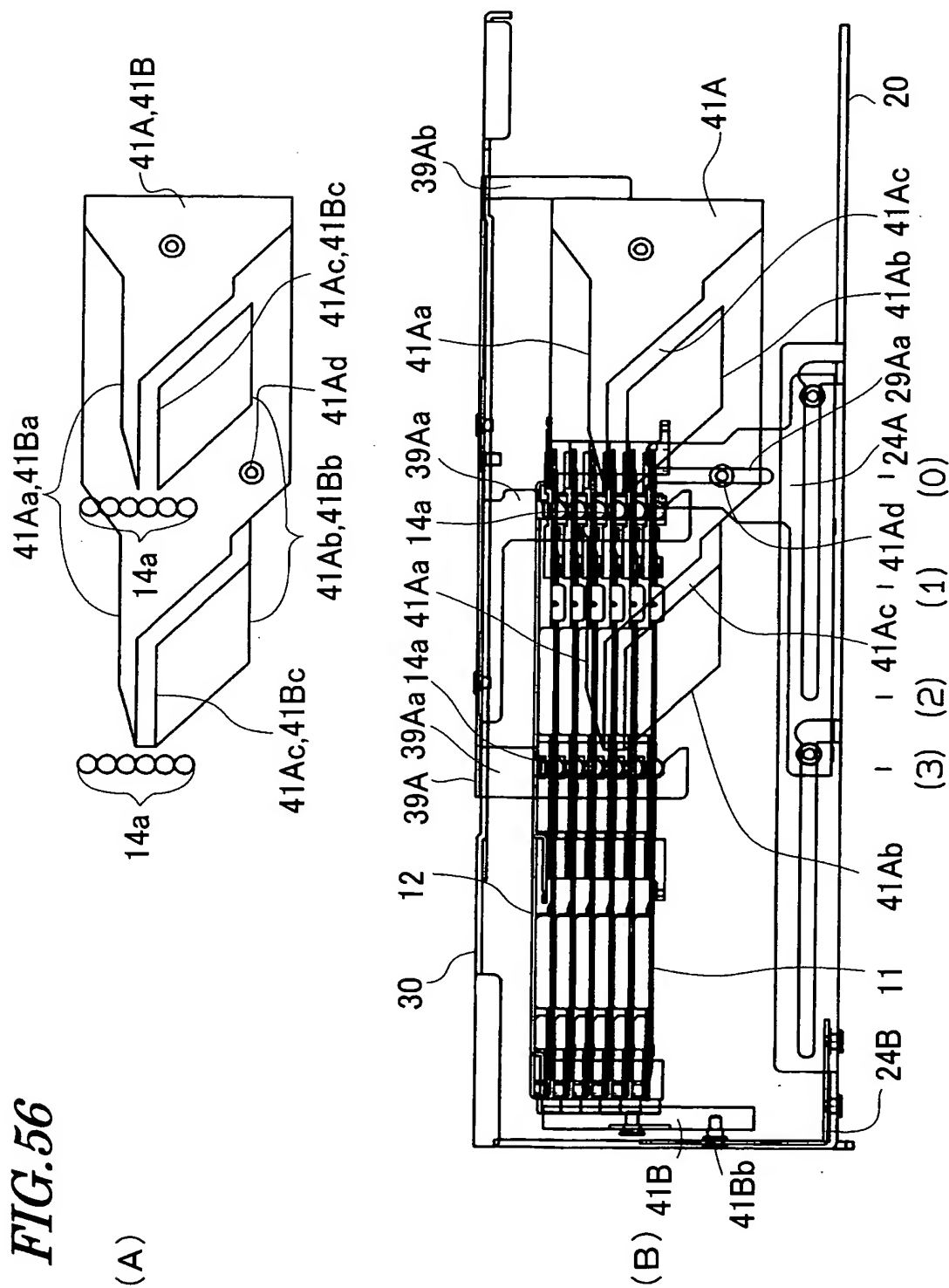


FIG. 57

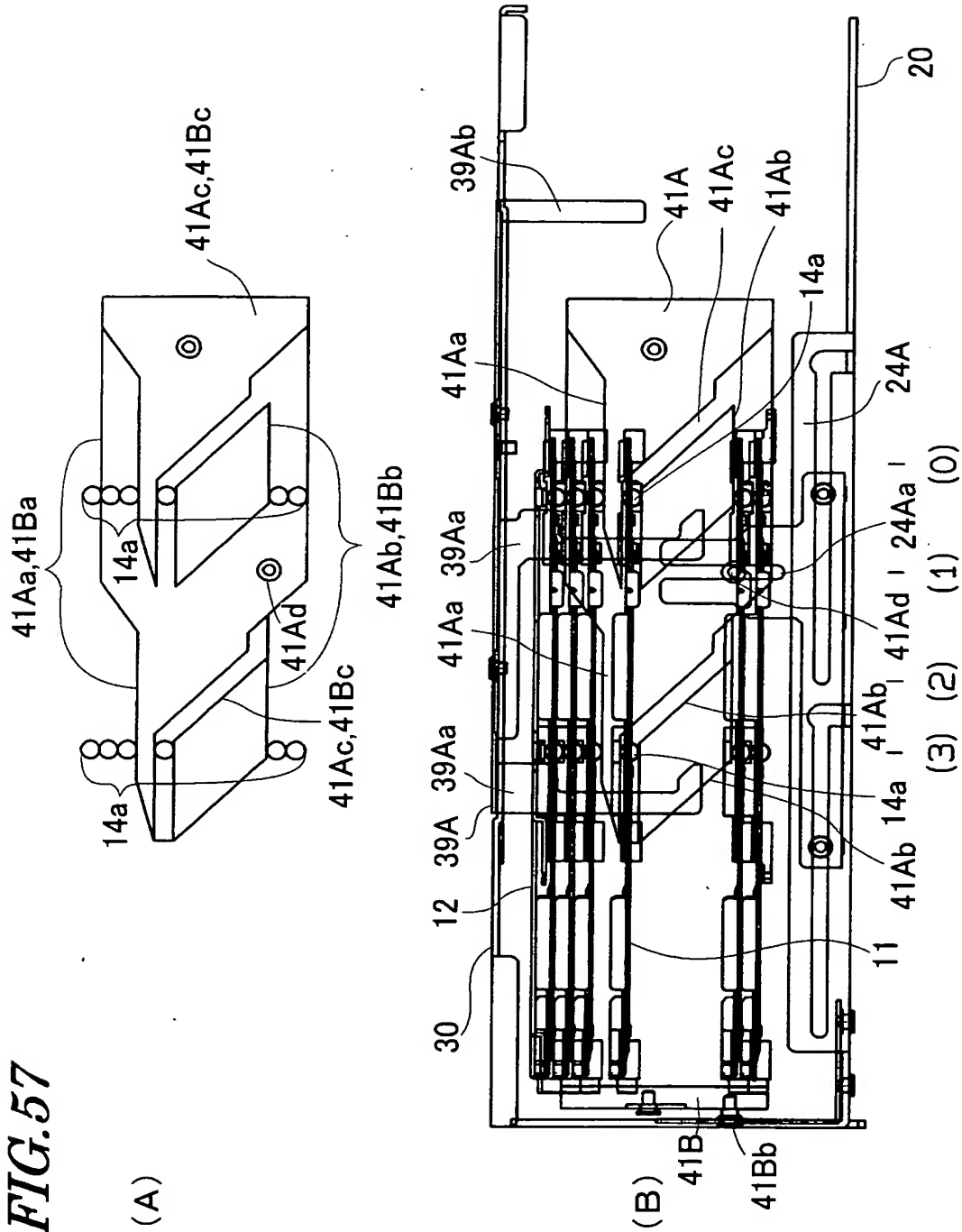


FIG. 58

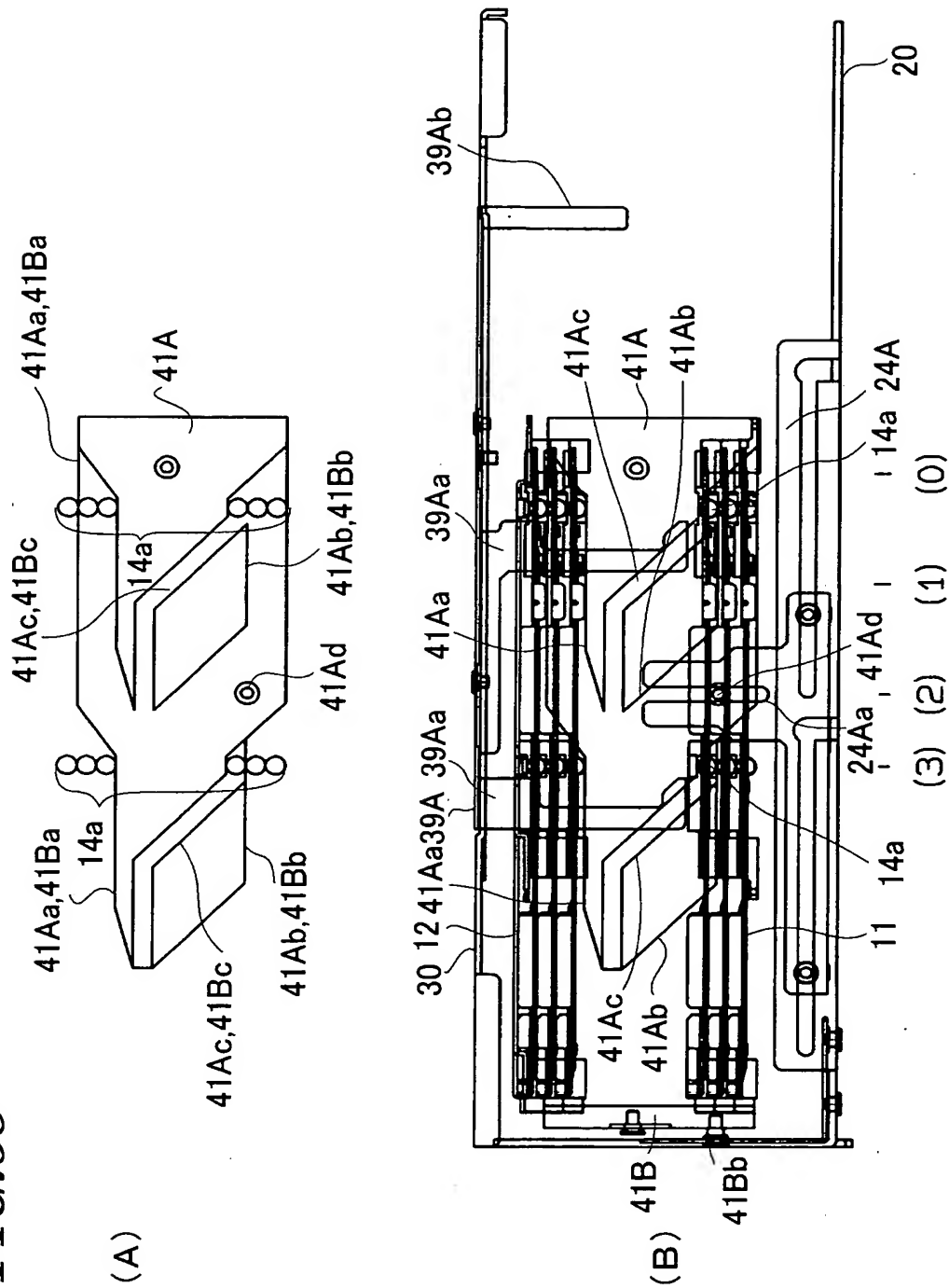


FIG. 59

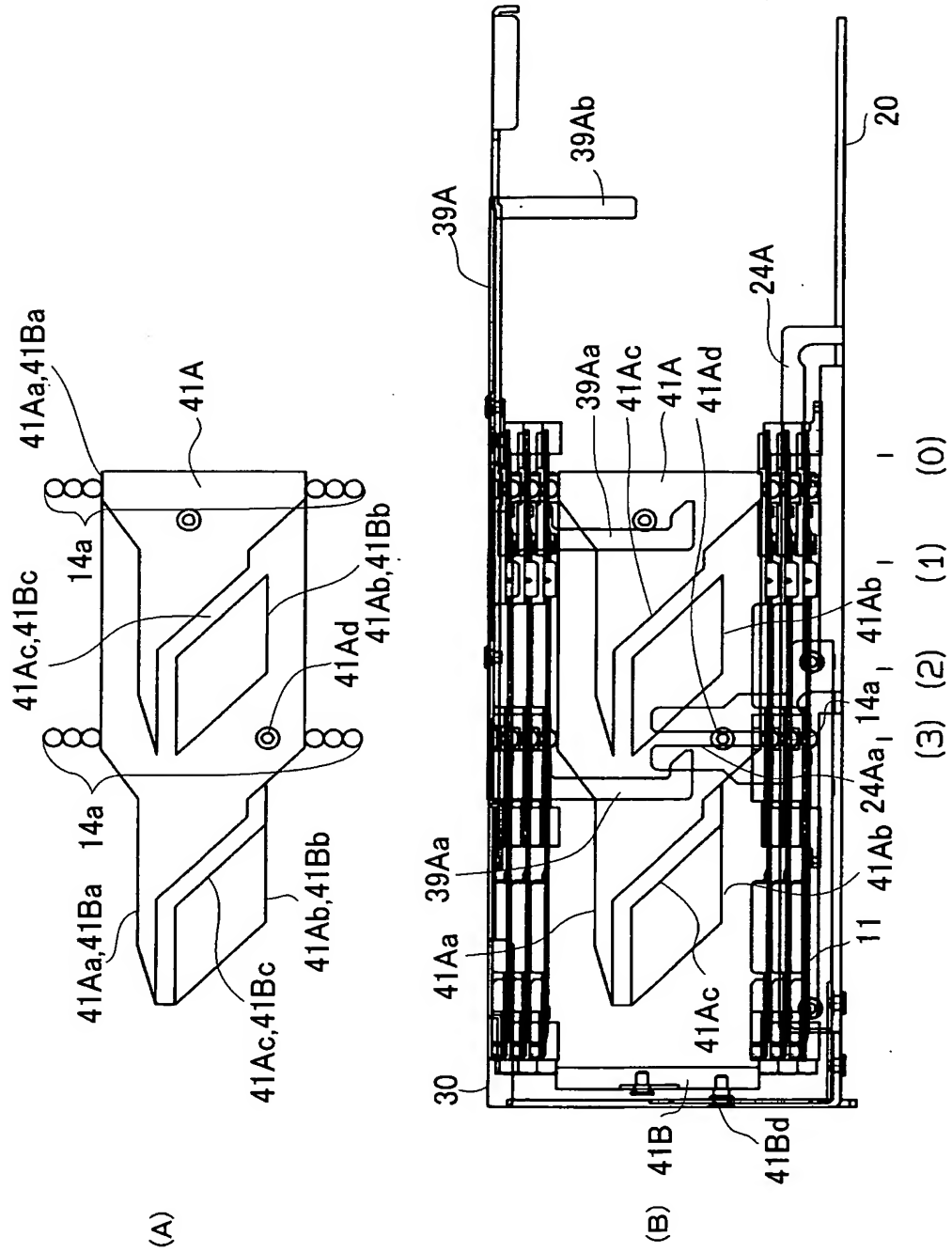


FIG. 60

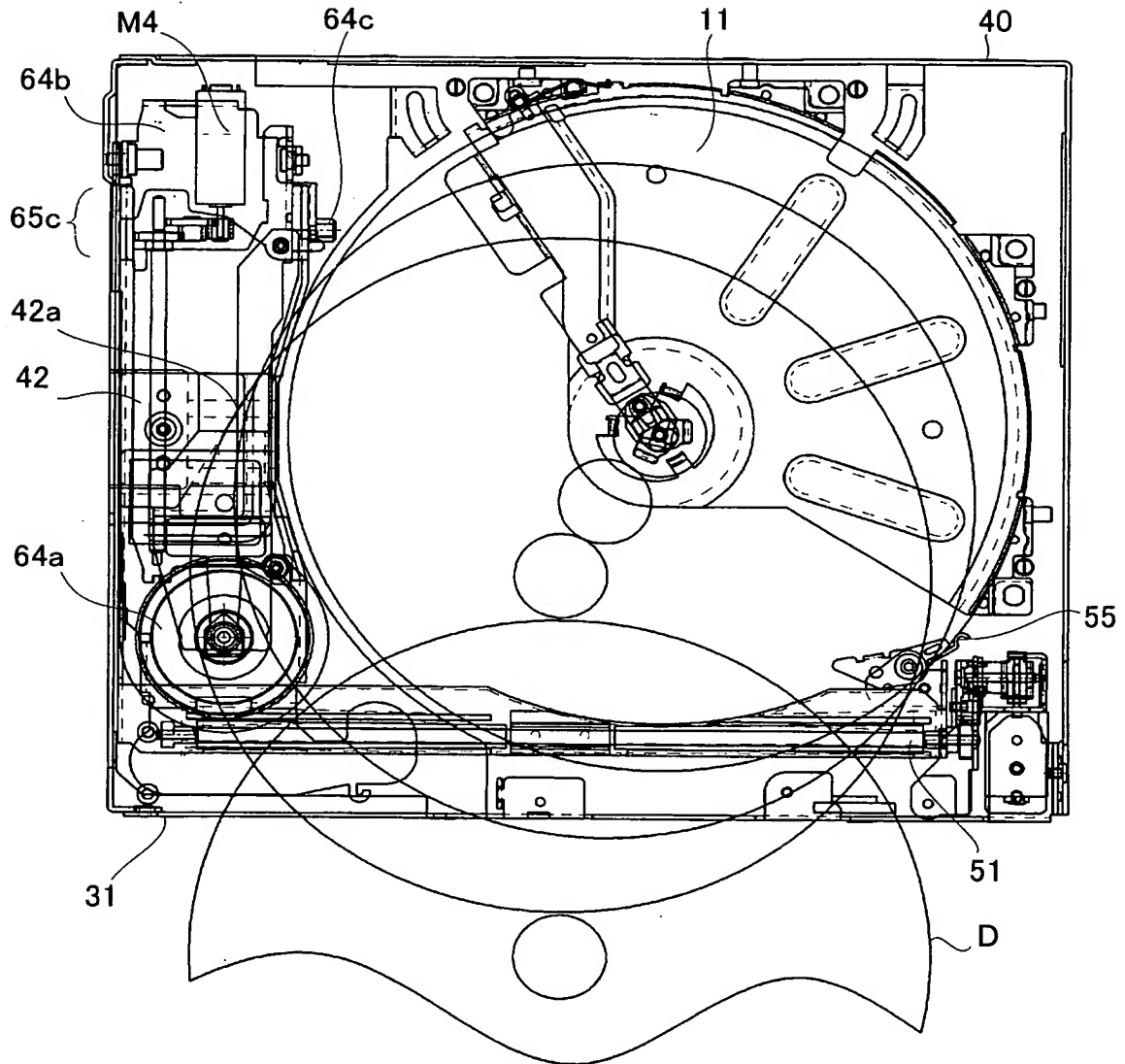


FIG. 61

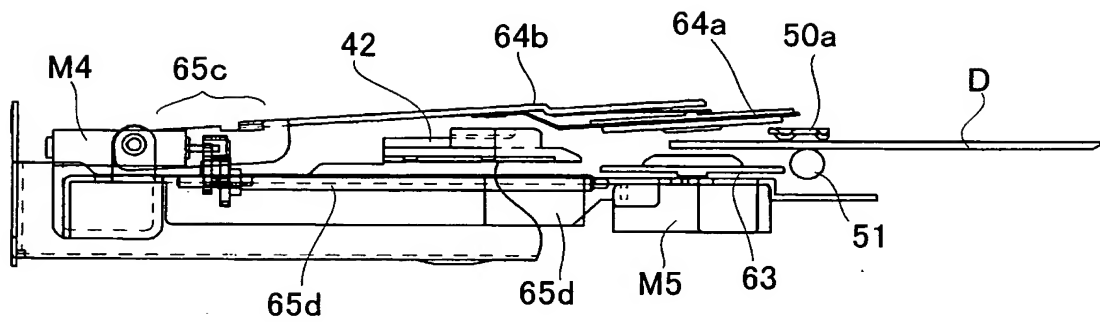


FIG. 62

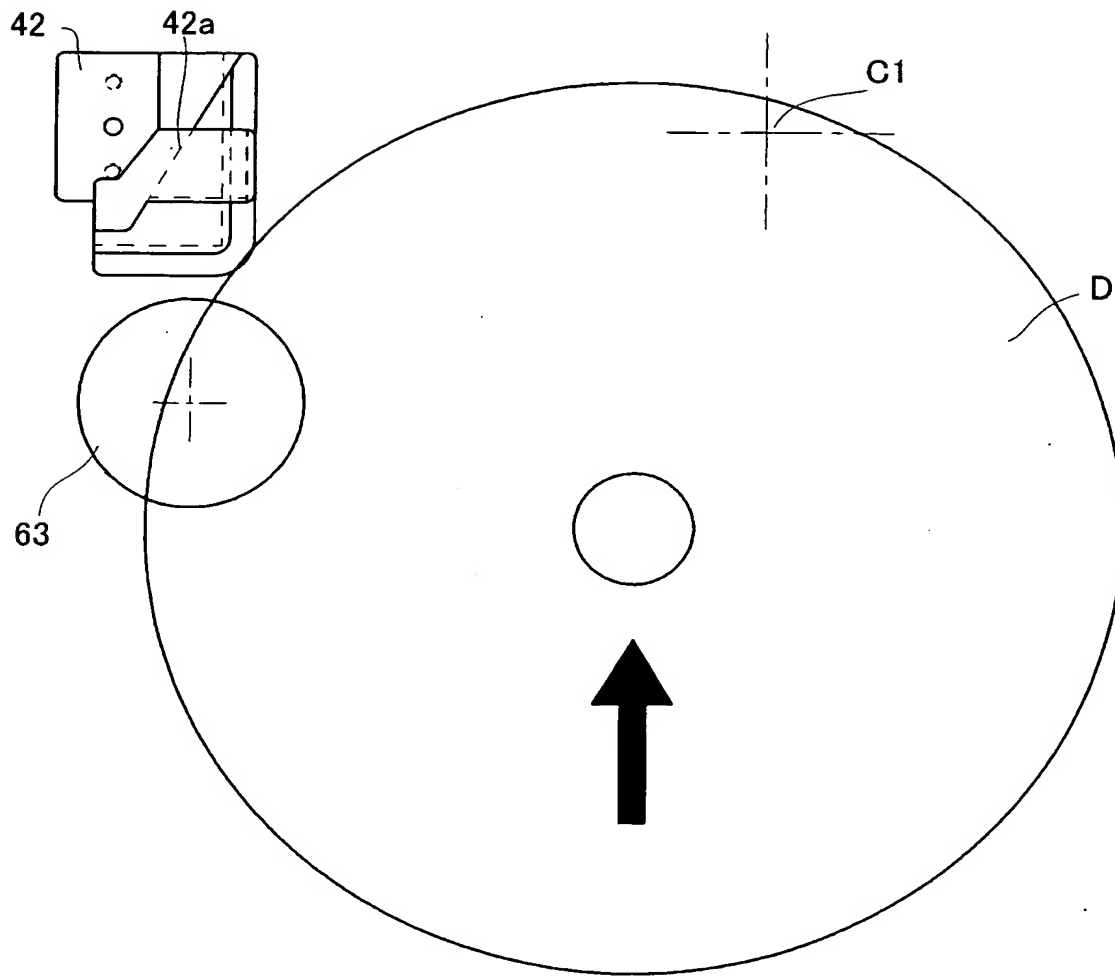


FIG. 63

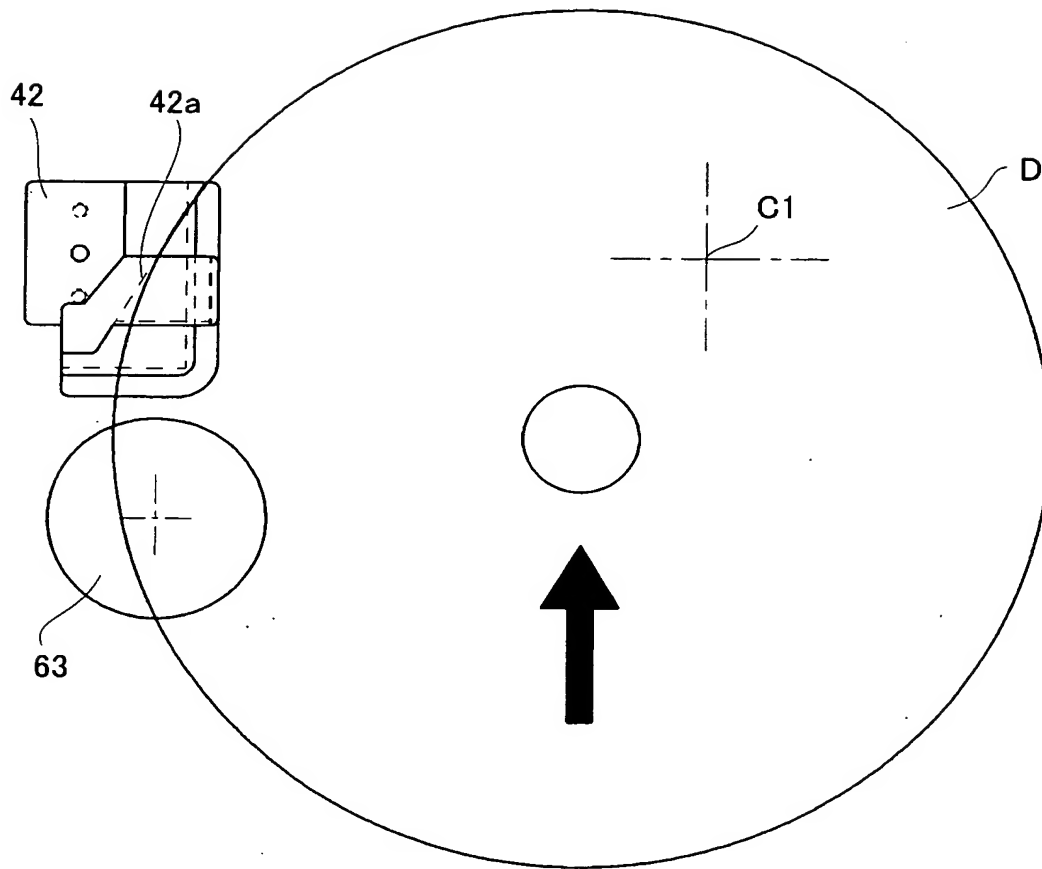


FIG. 64

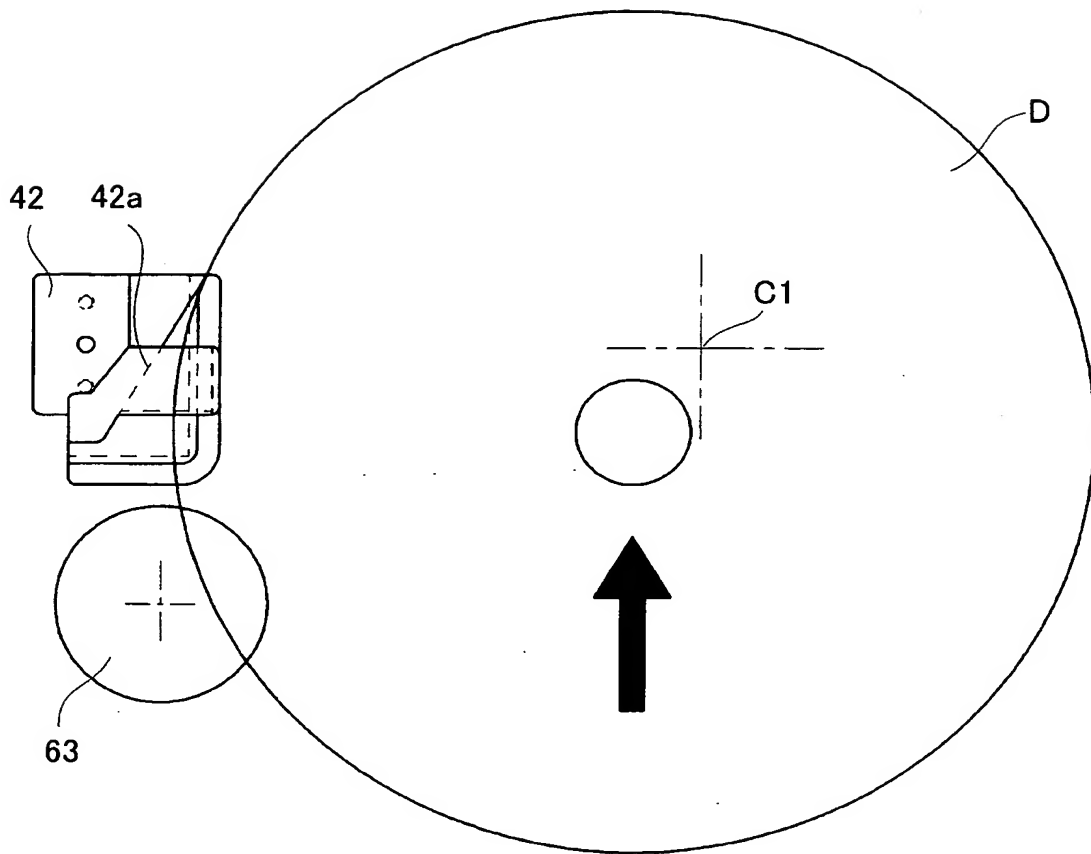


FIG. 65

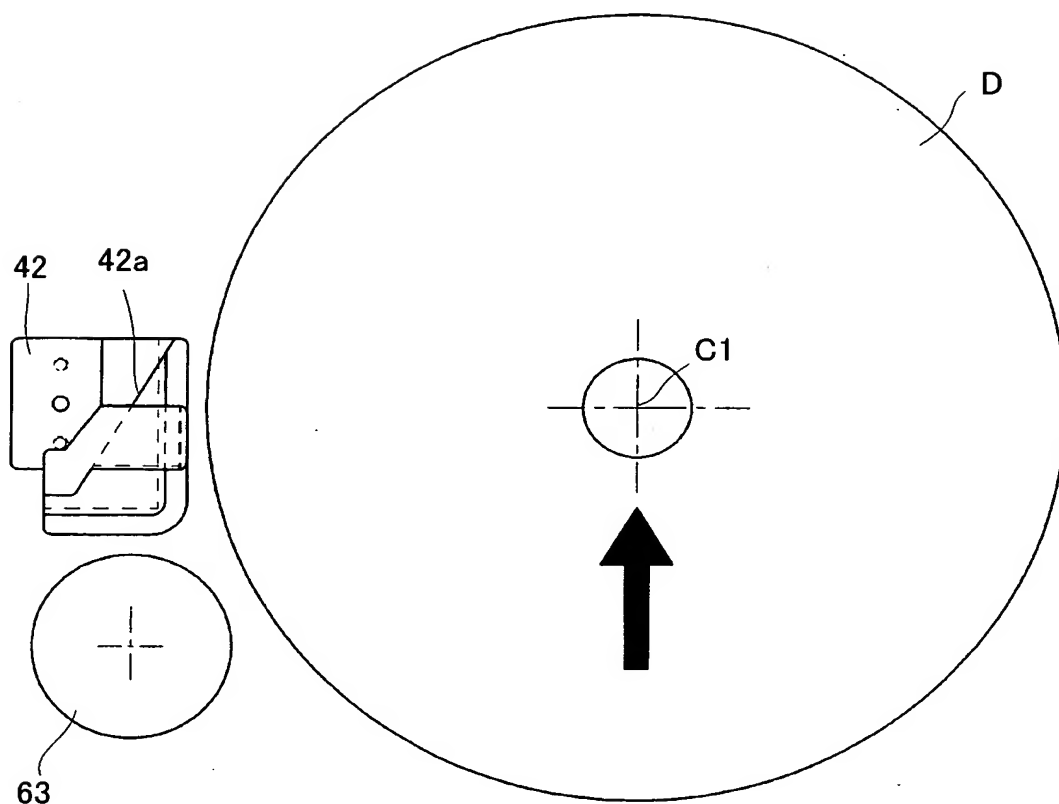
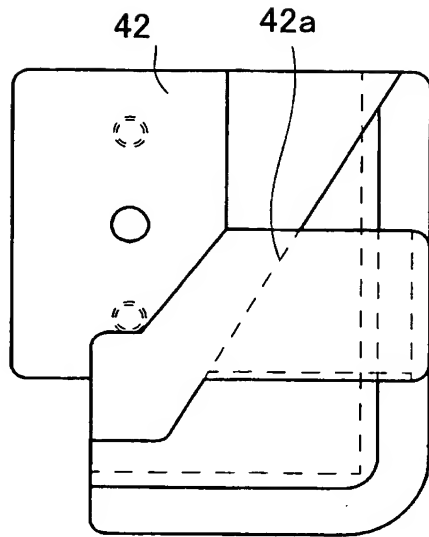
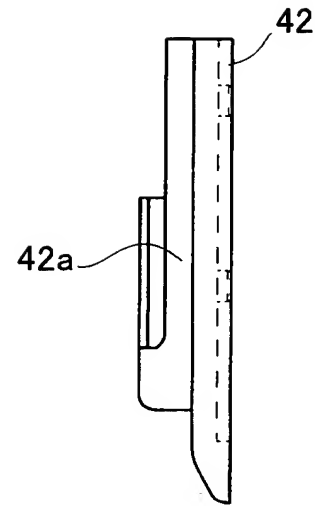


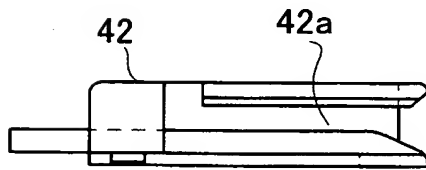
FIG. 66



(A)



(C)



(B)

FIG. 67

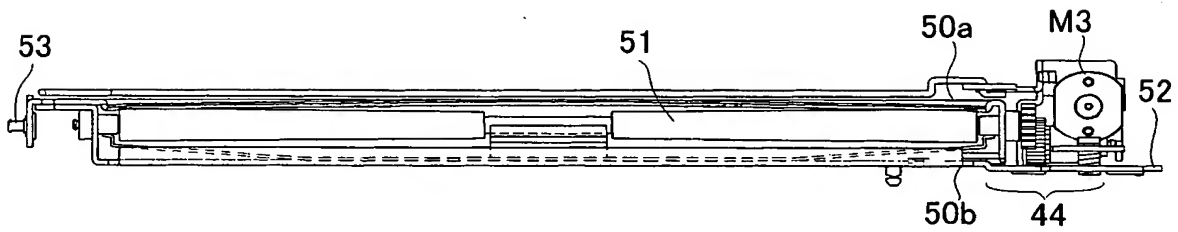


FIG. 68

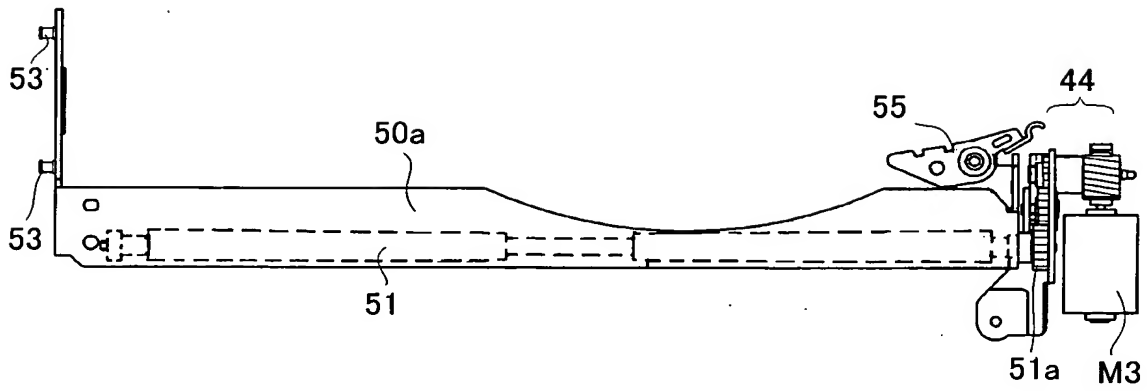


FIG. 69

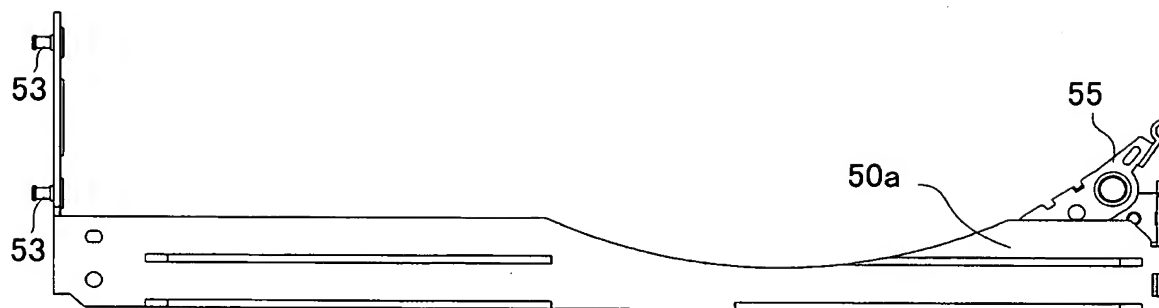


FIG. 70

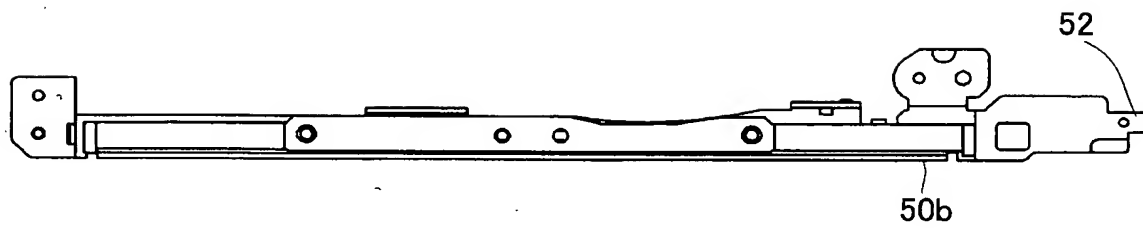


FIG. 71

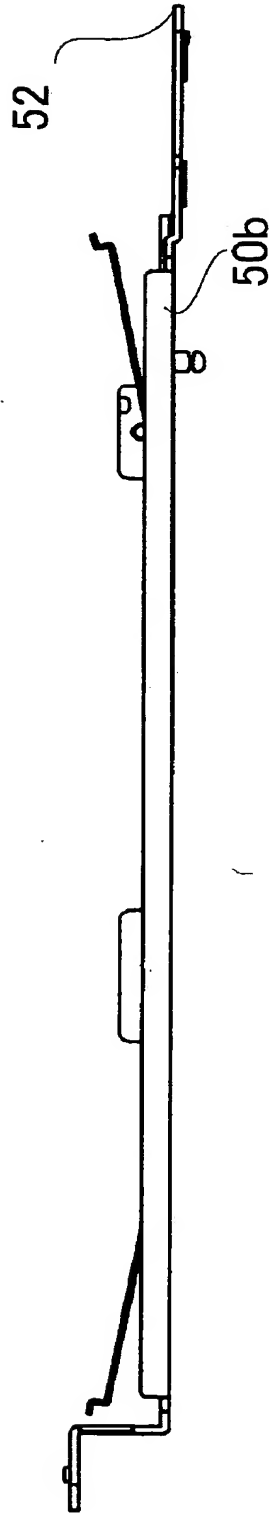


FIG. 72

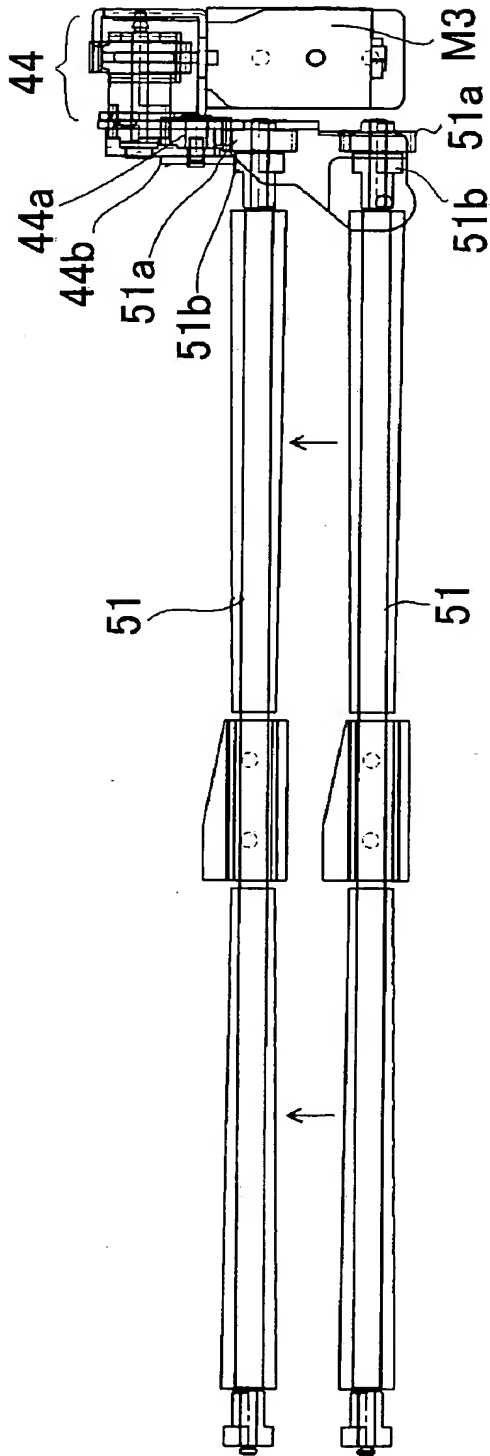


FIG. 73

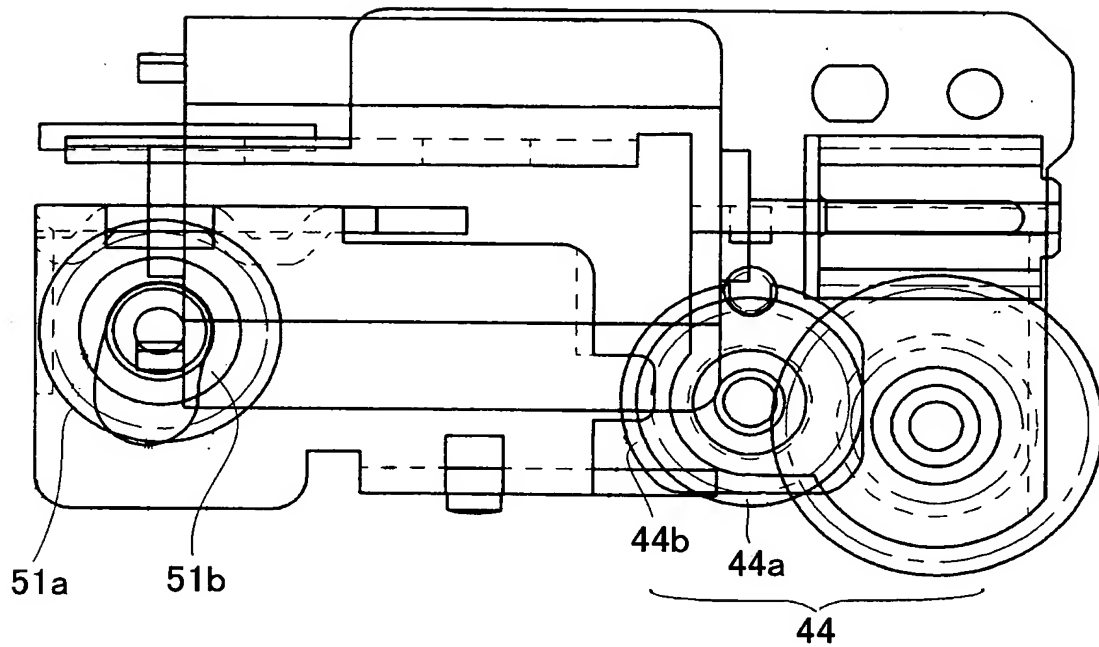


FIG. 74

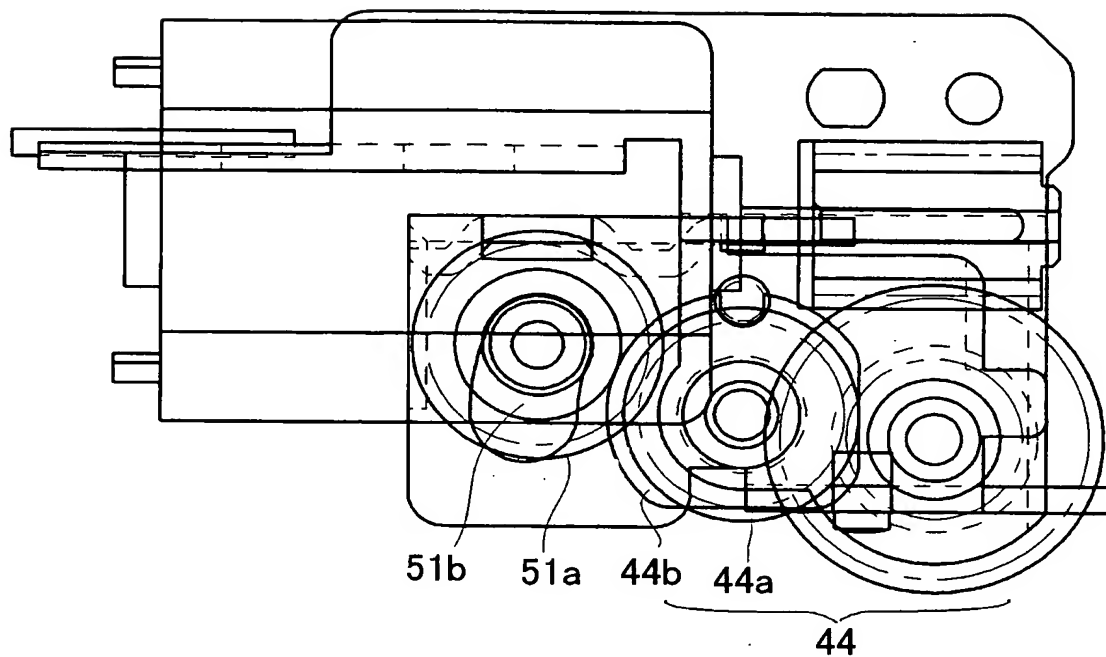


FIG. 75

62

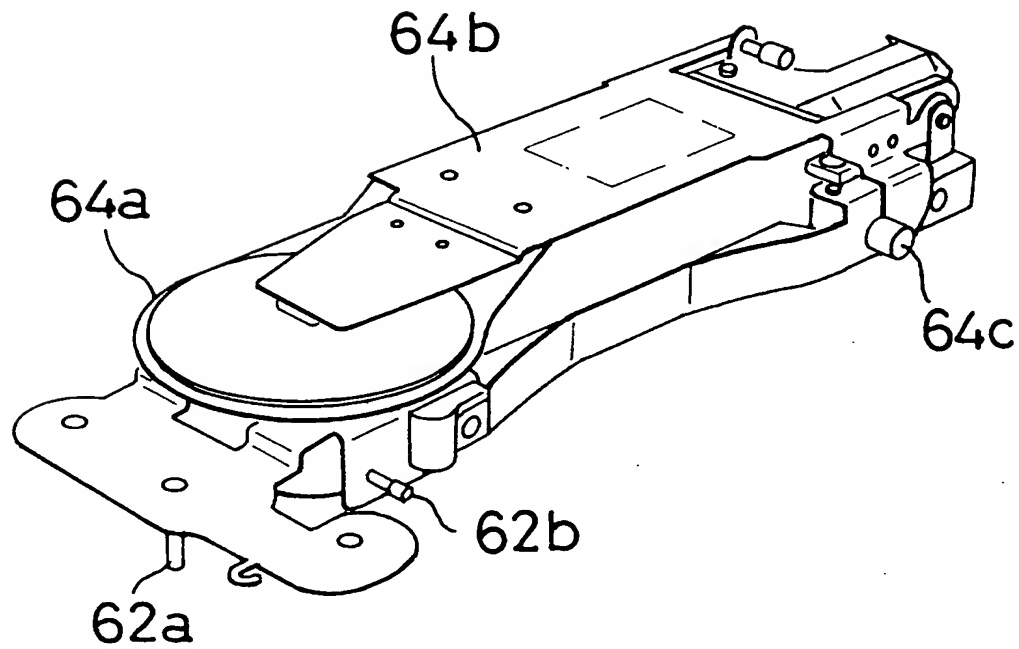


FIG. 76

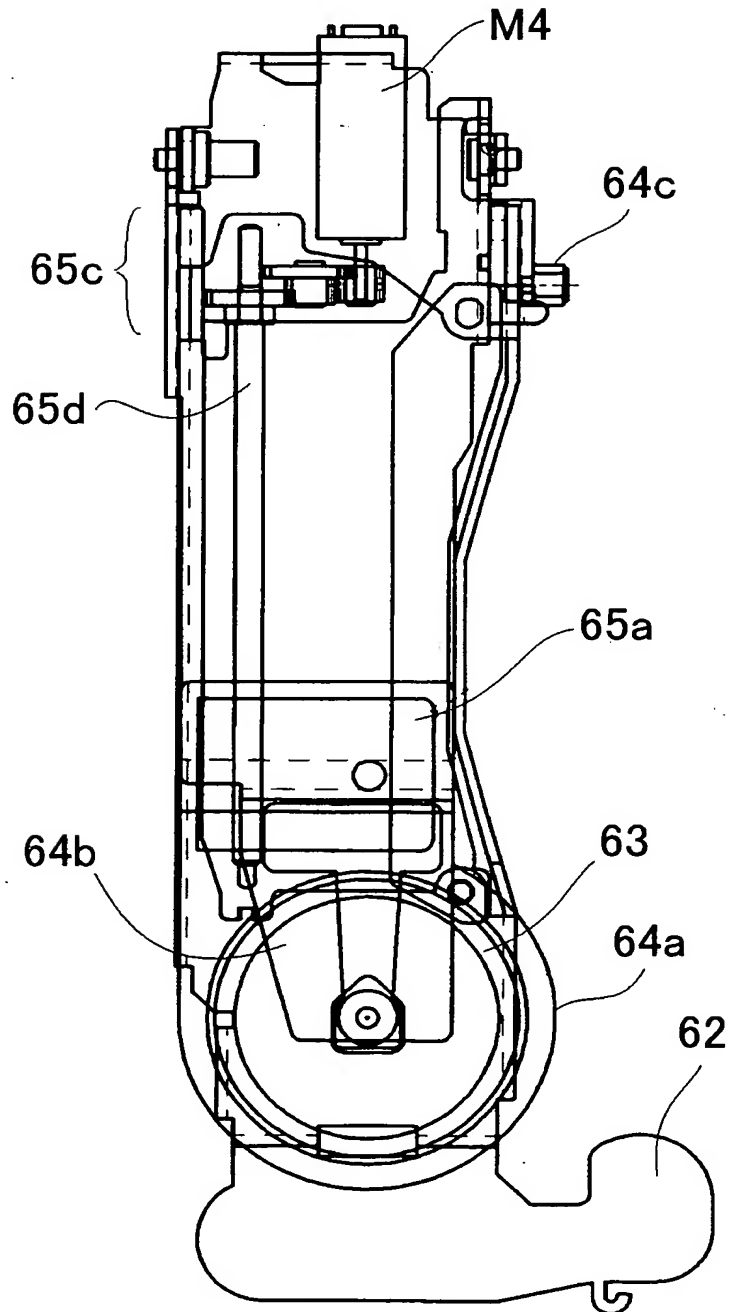


FIG. 77

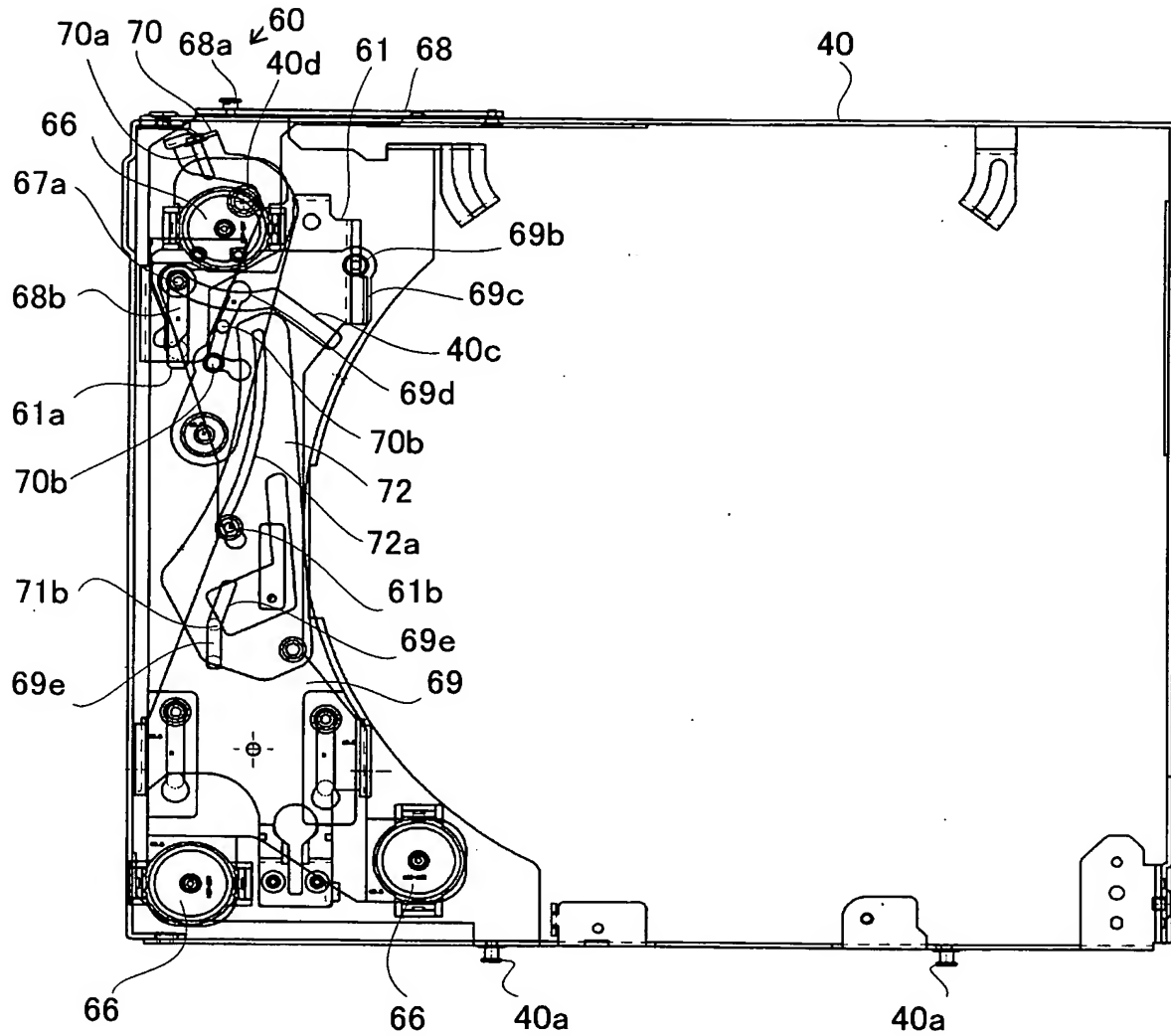


FIG. 78

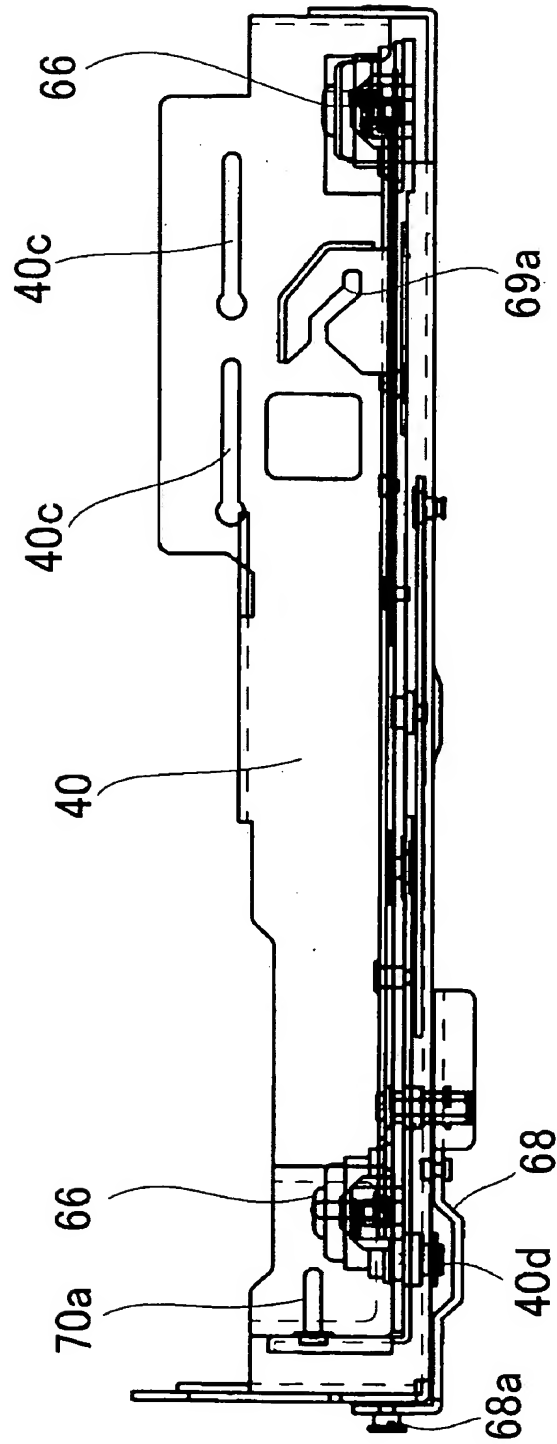


FIG. 79

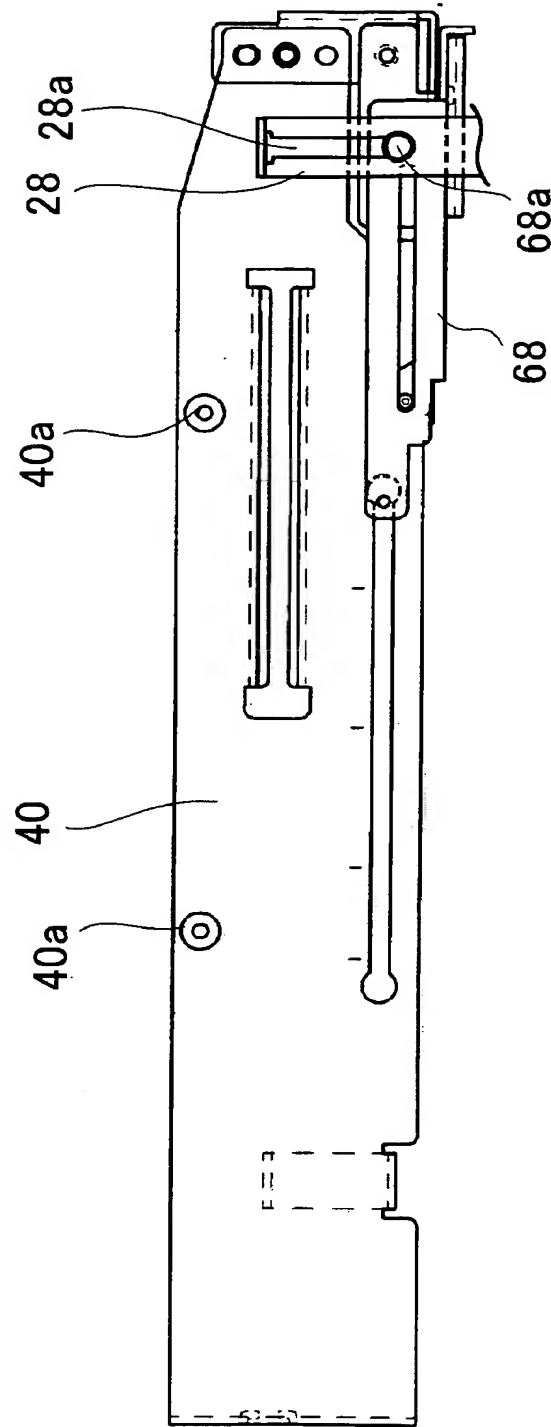
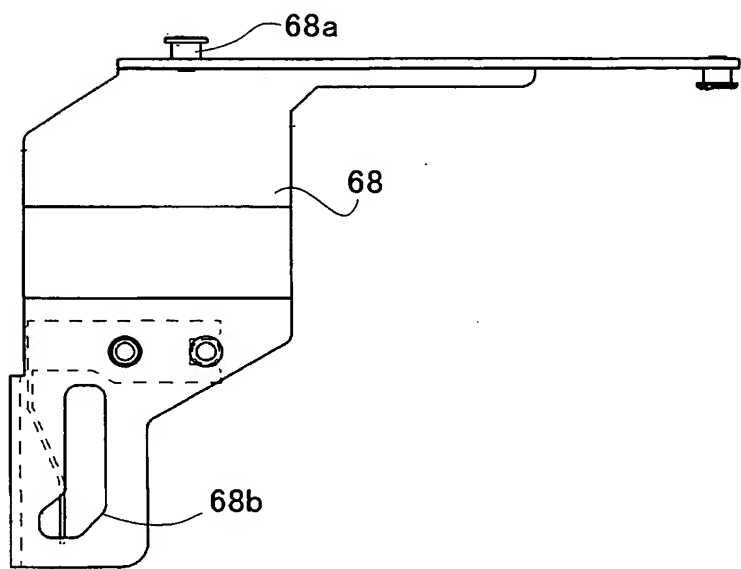
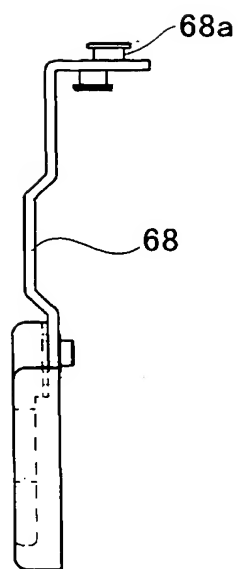


FIG. 80



(A)



(B)

FIG. 81

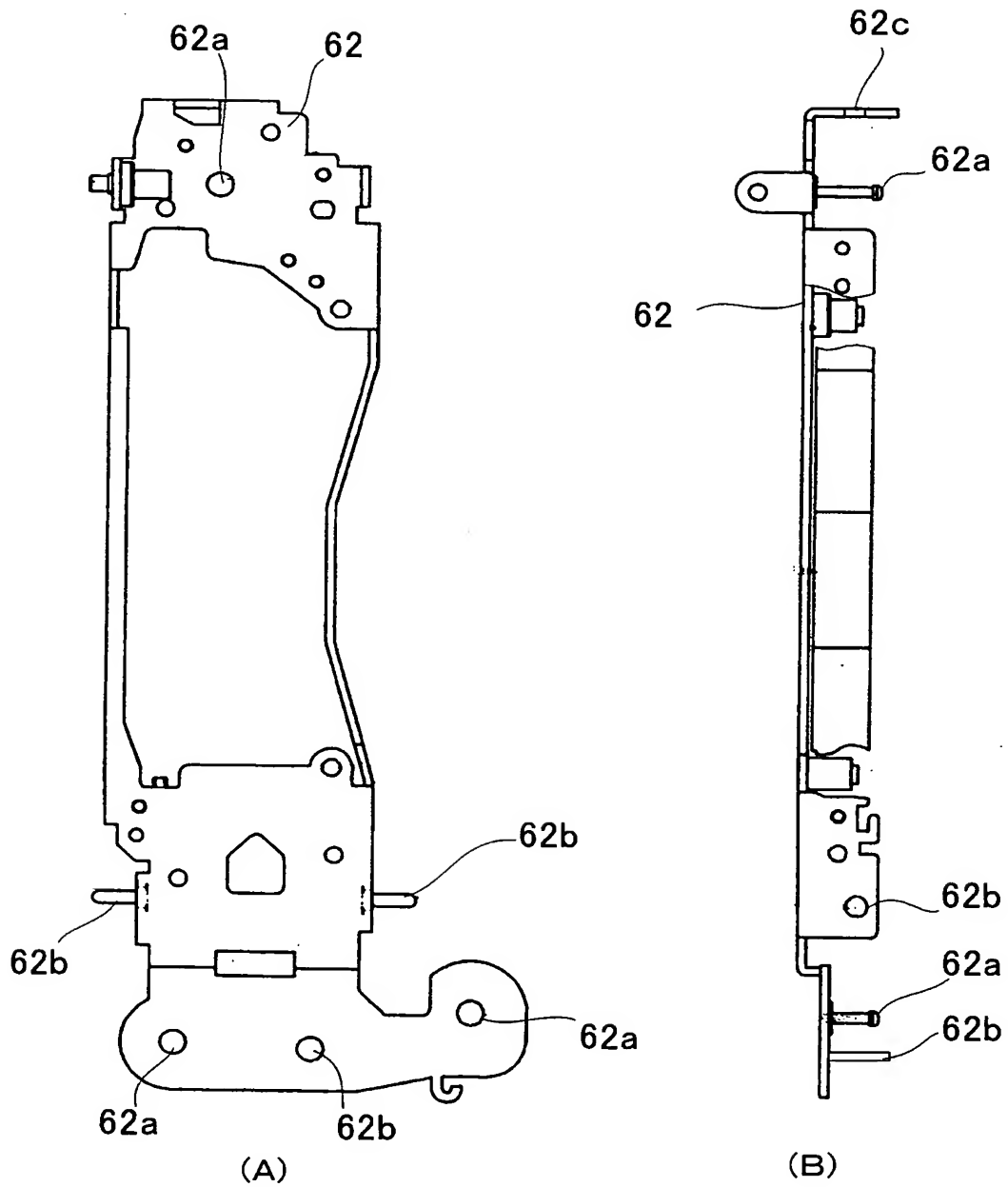


FIG. 82

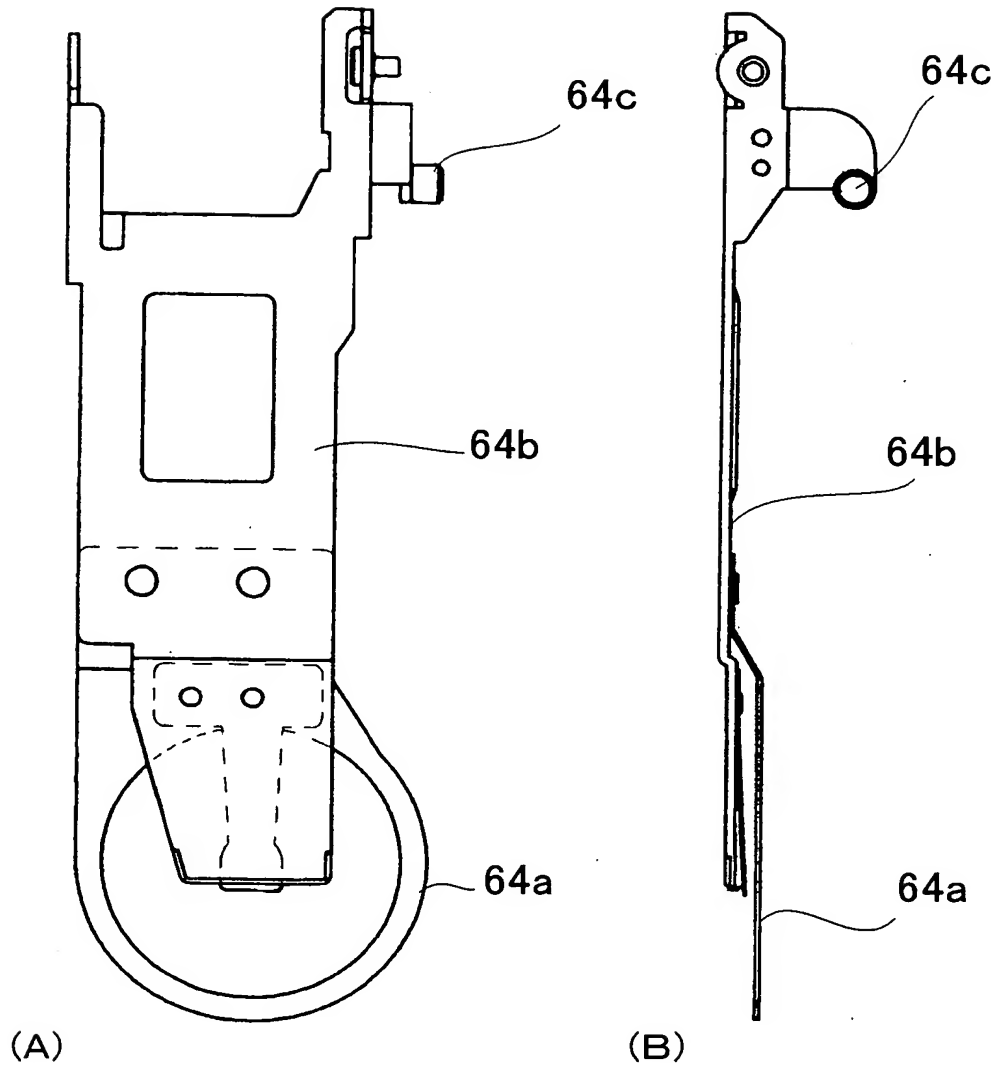


FIG. 83

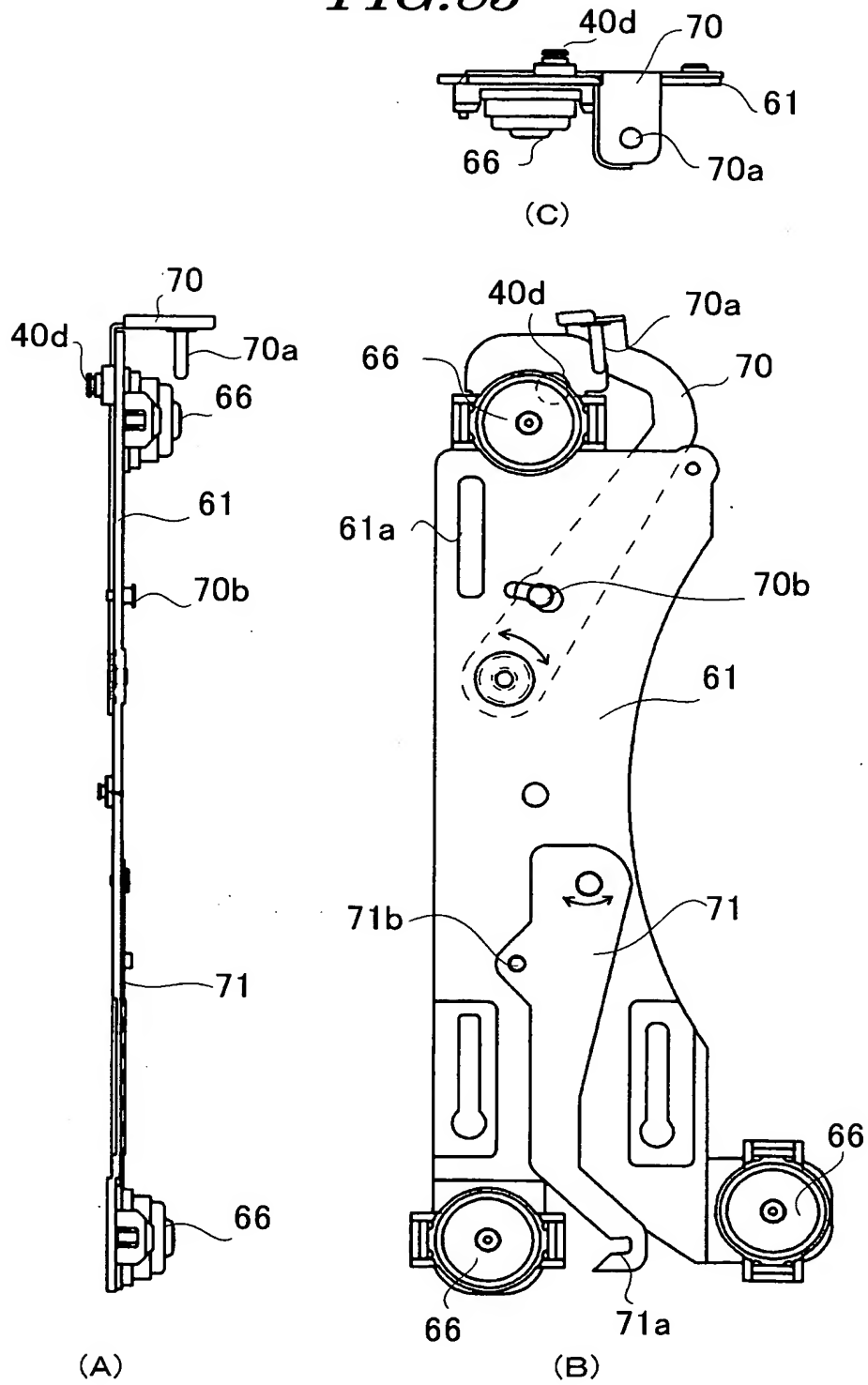


FIG. 84

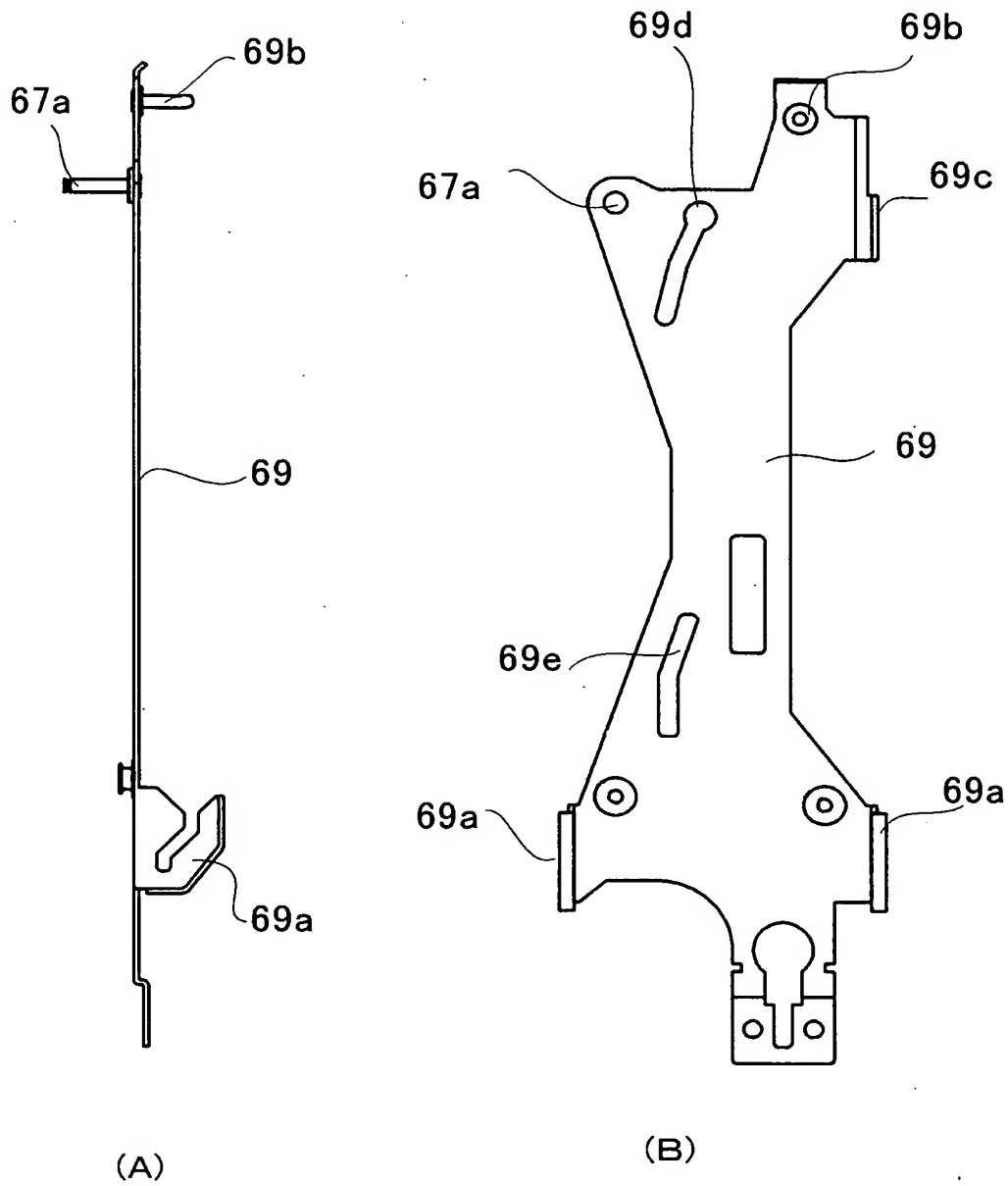


FIG. 85

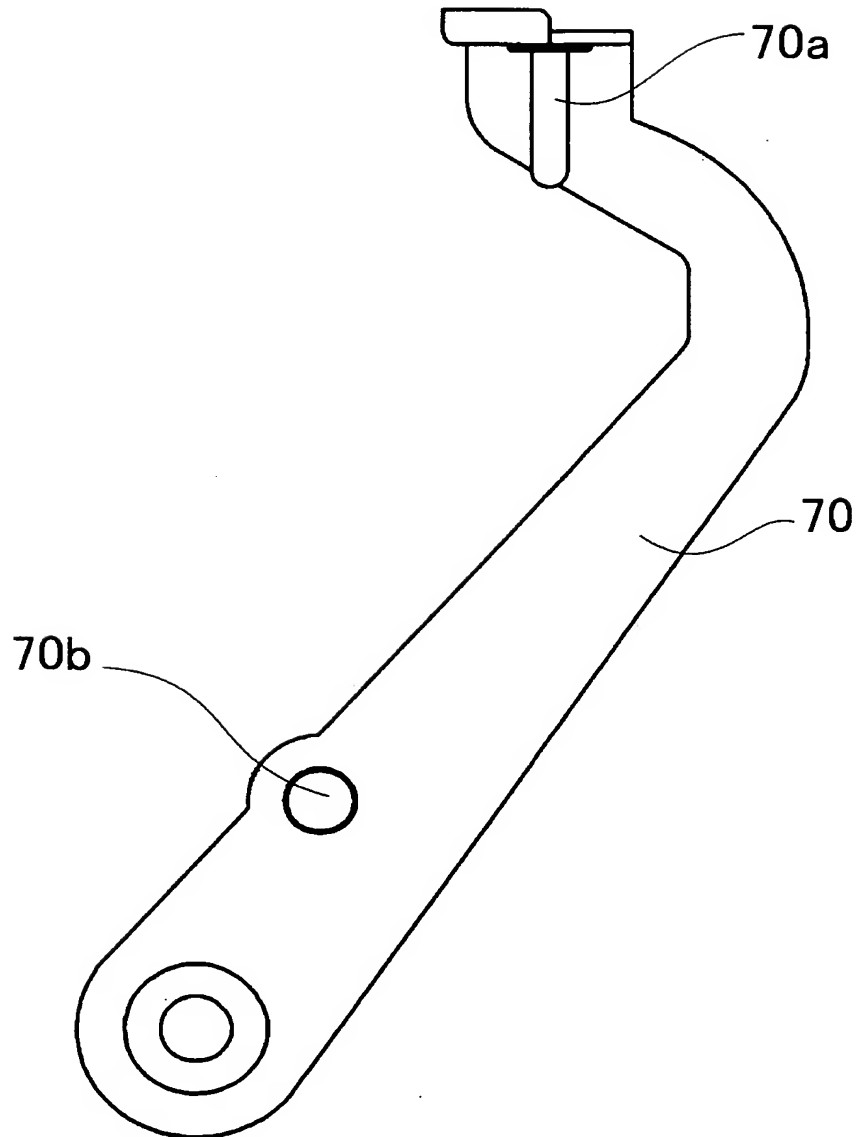


FIG. 86

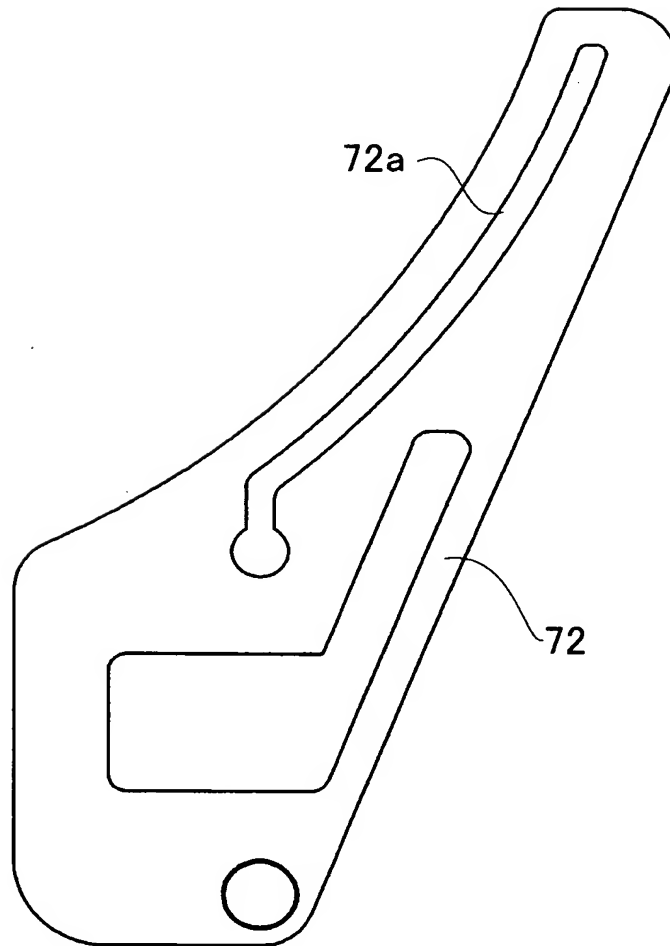


FIG. 87

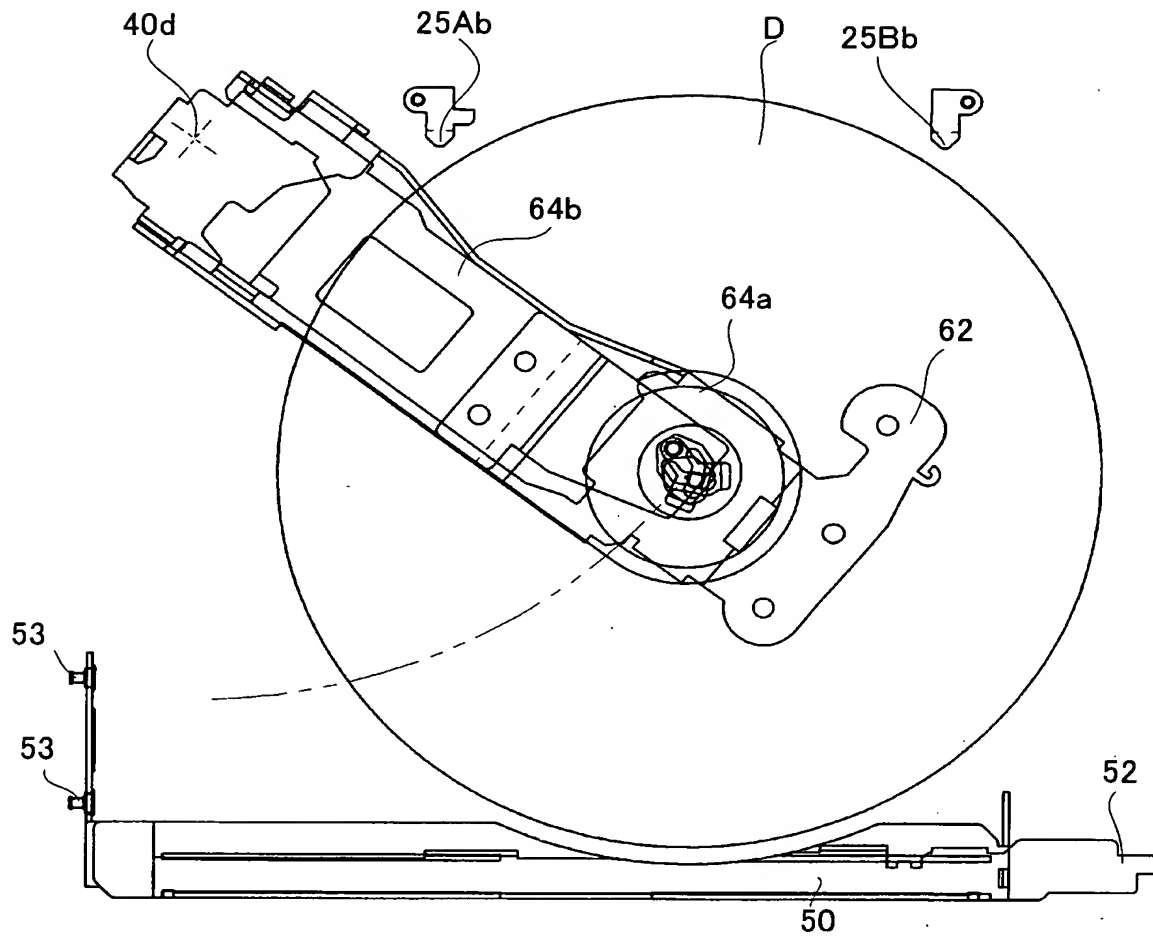


FIG. 88

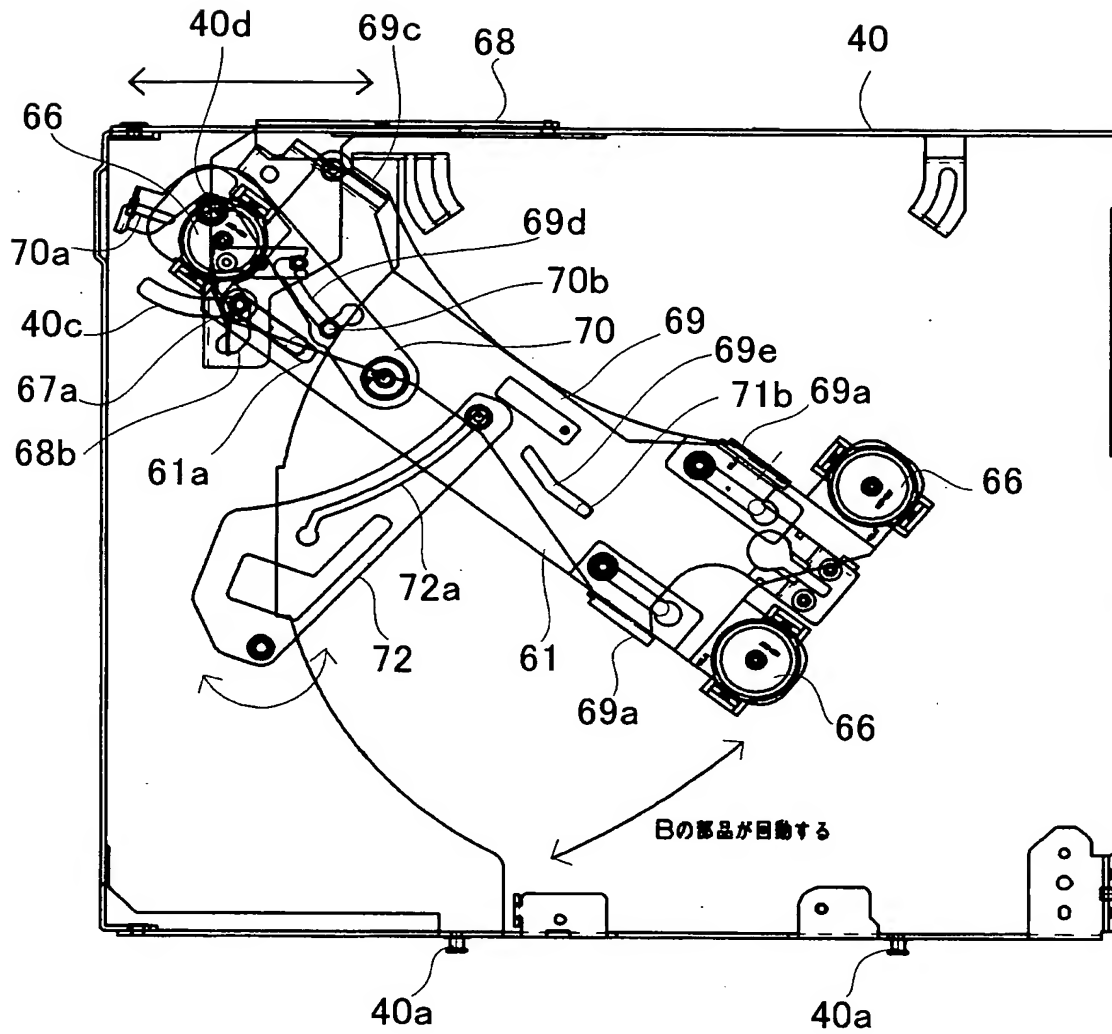


FIG. 89

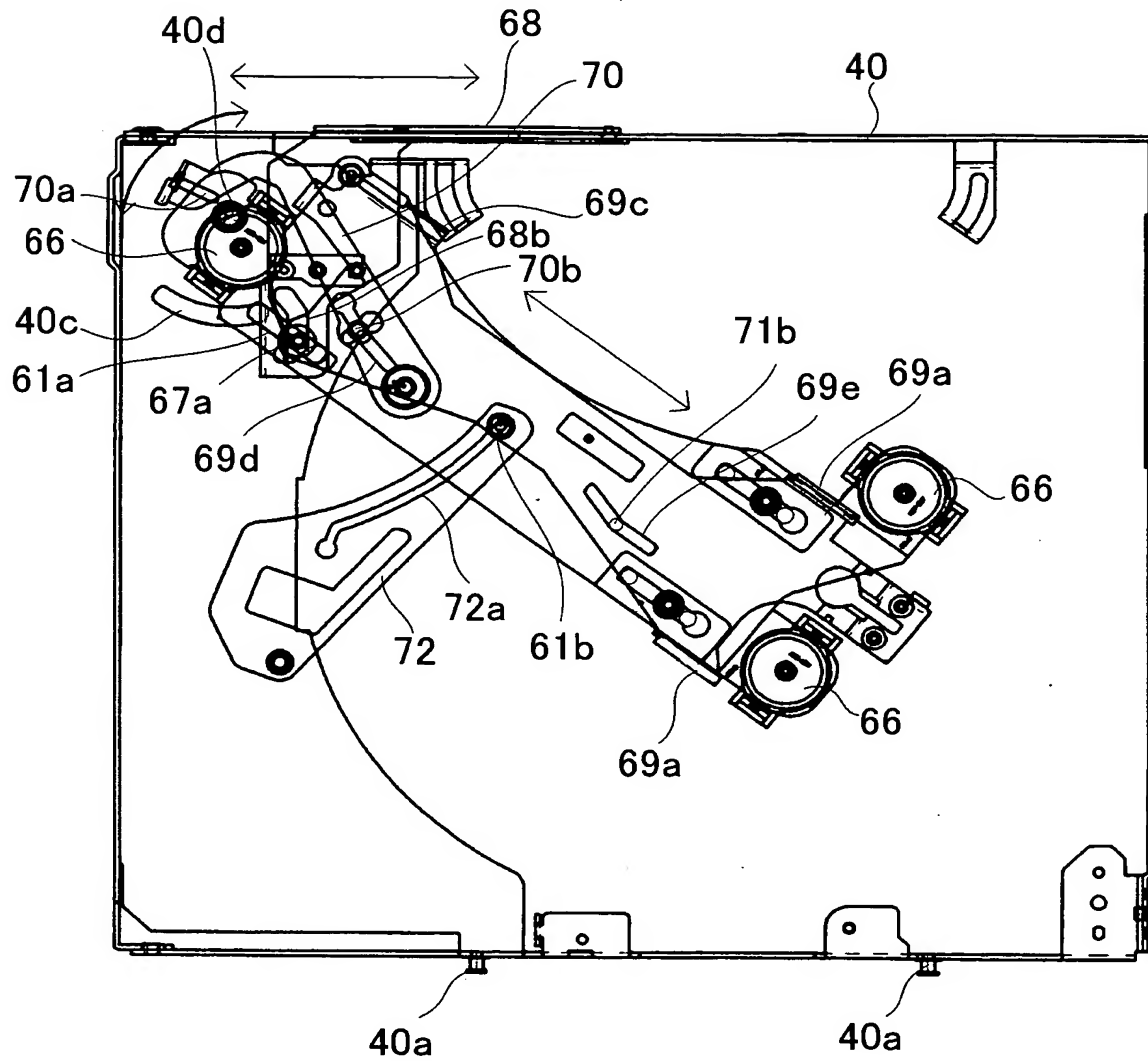


FIG. 90

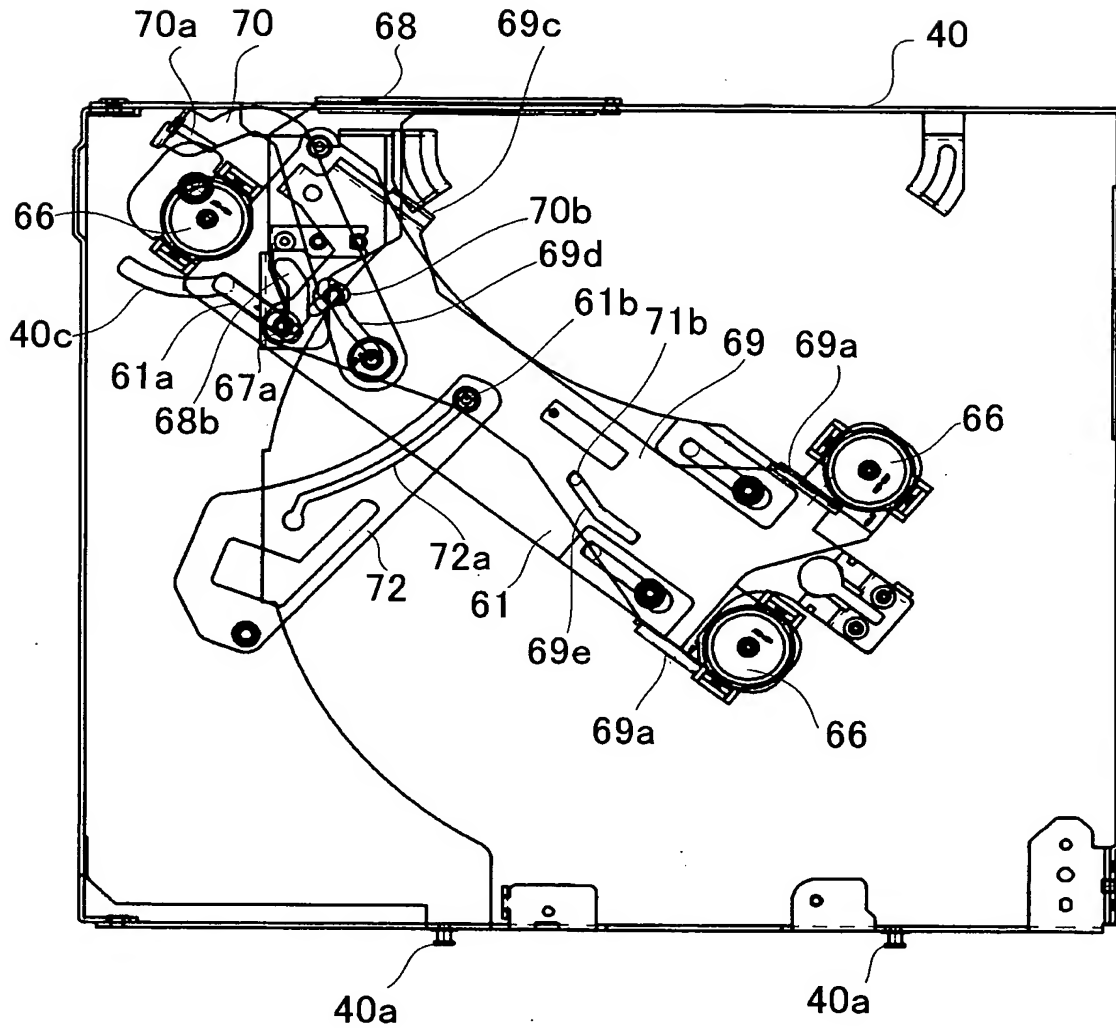


FIG. 91

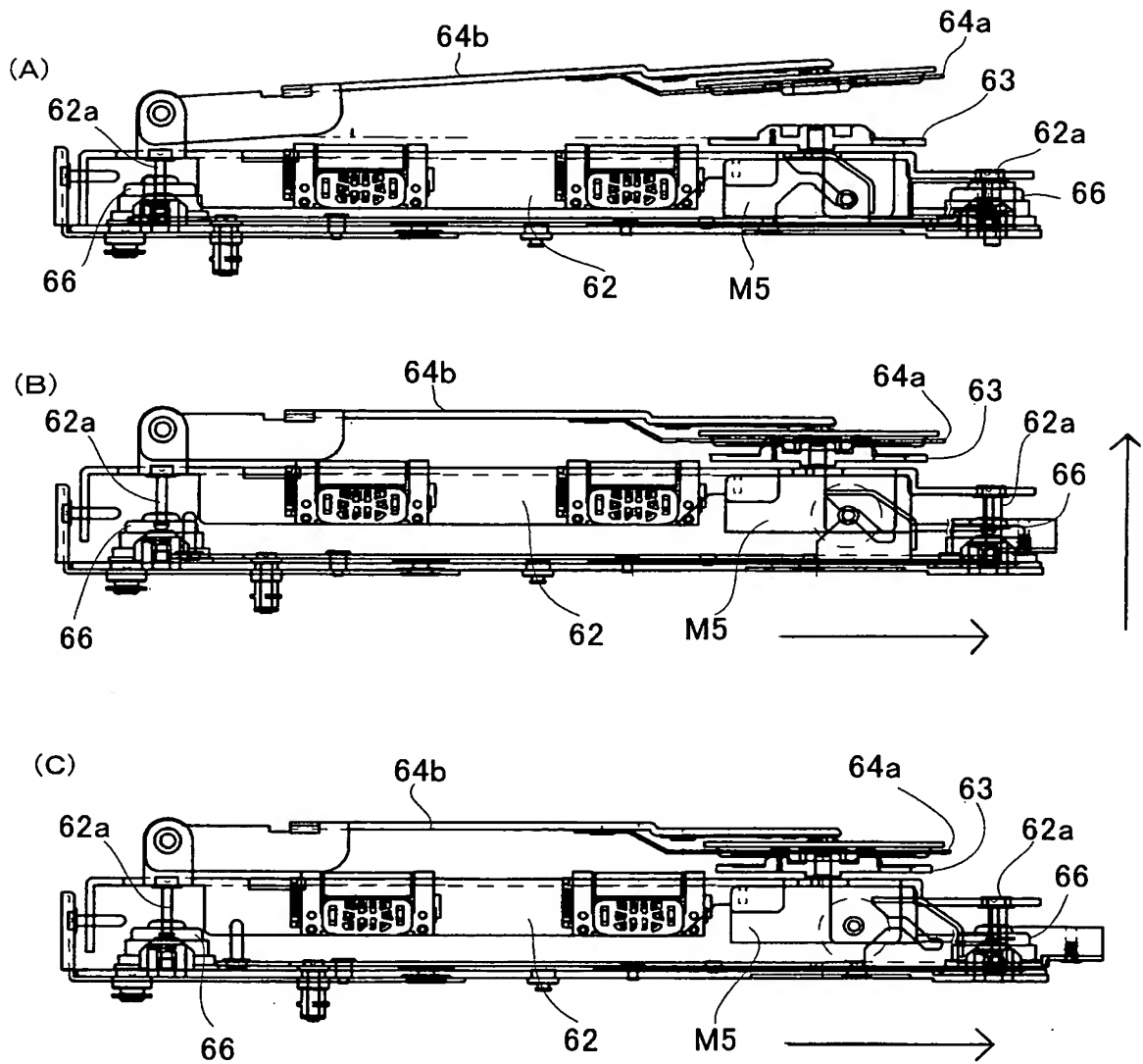


FIG. 92

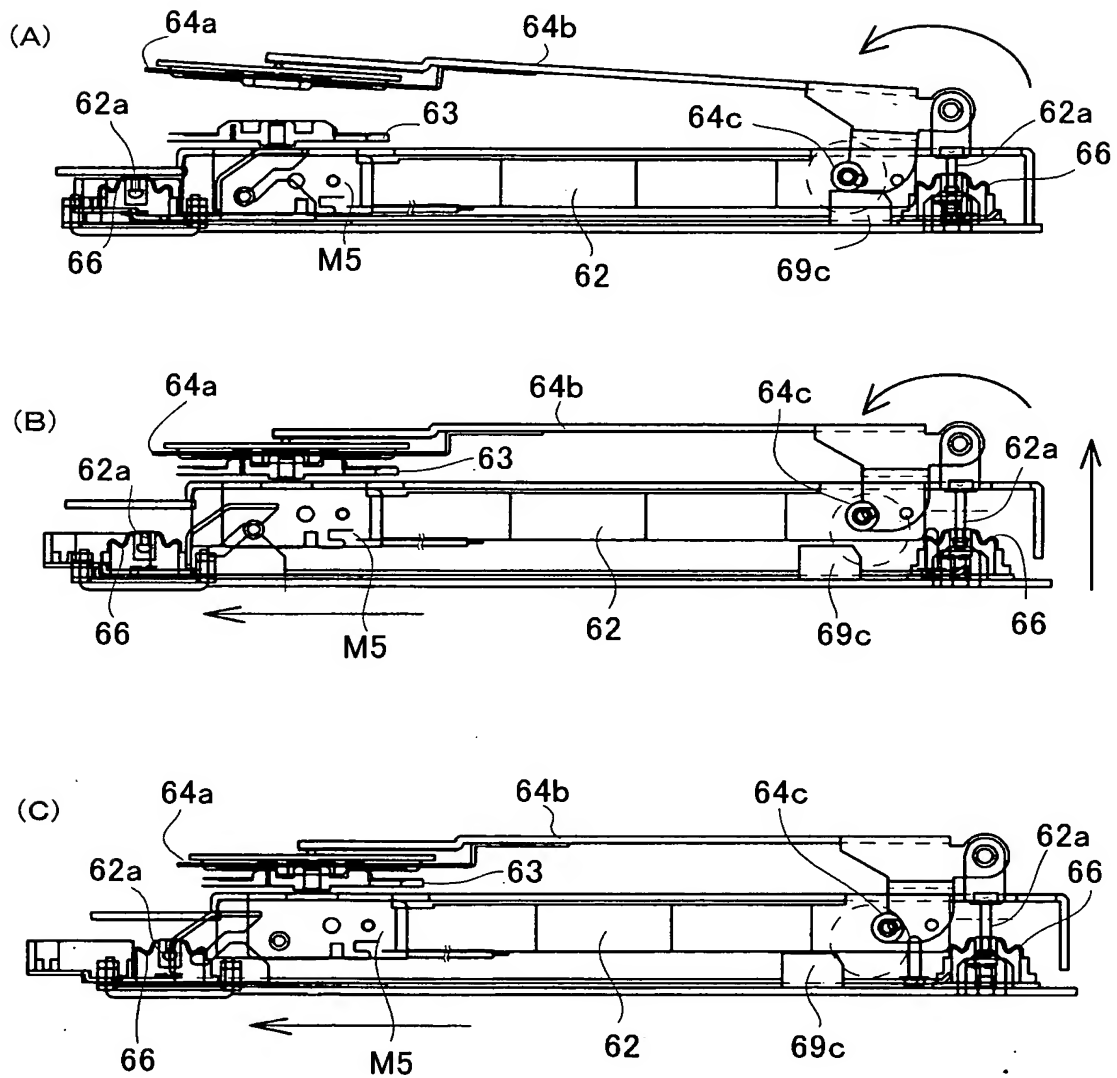


FIG. 93

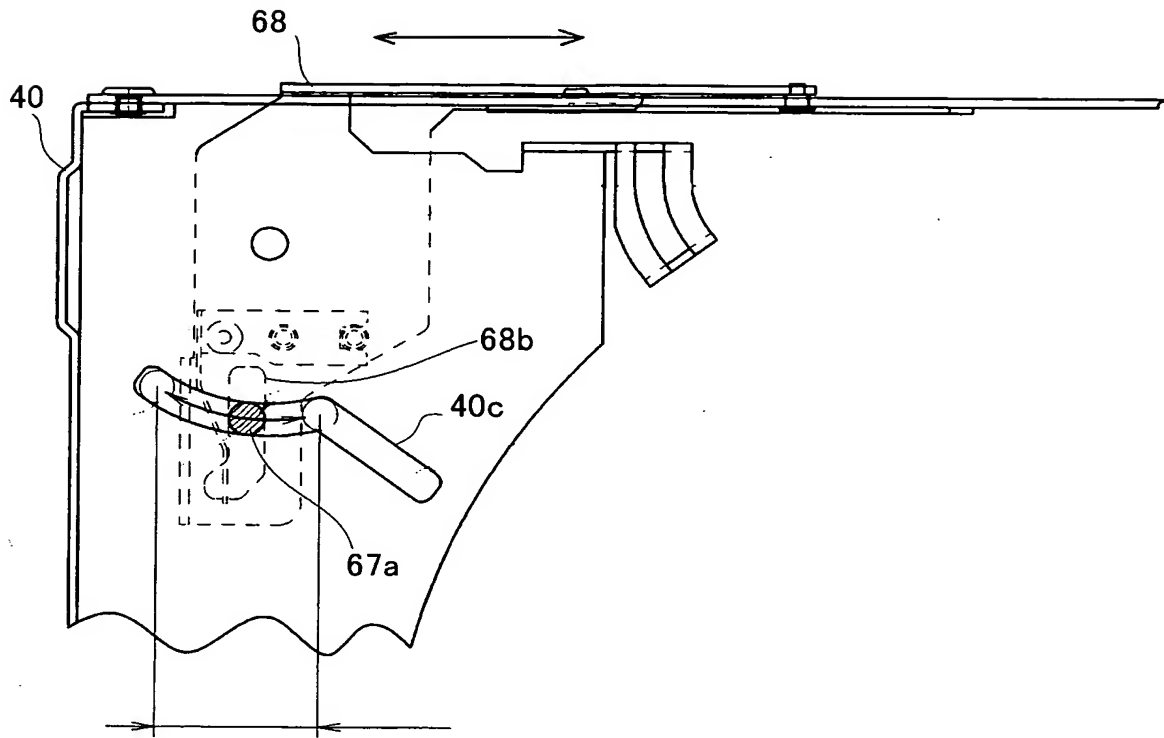


FIG. 94

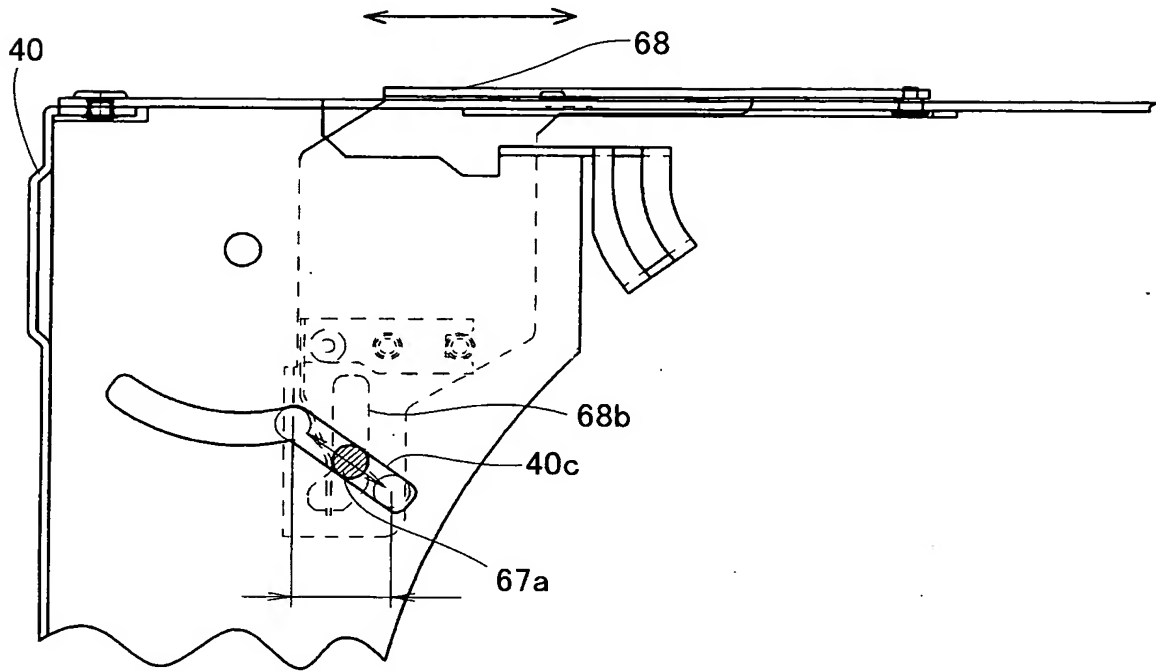


FIG. 95

FLOW OF OPERATION DURING DISK LOADING

	OPERATION CONTENT	WORKING MOTOR				
		M1	M2	M3	M4	M5
1	DRIVE CHASSIS UNIT IS MOVED INTO A POSITION PERMITTING THE SELECTION OF A HOLDER PLATE FOR STORING THE LOADED DISK		○			
2	DISK SELECTOR IS MOVED TO OPEN THE HOLDER PLATE TO A WIDTH PERMITTING THE INSERTION OF THE LOADING ROLLER (HOLDER OPEN POSIITON (1)).	○				
3	DRIVE CHASSIS UNIT IS RAISED TO A HEIGHT THAT ALLOWS DISK LOADING		○			
4	LOADING ROLLER IS MOVED TOWARD THE DISK HOLDER TO ENTER A STATE ALLOWING A DISK TO BE HELD	○				
	SHUTTER IS OPENED					
4	CATCHES OF DISK HOLD LINKS ARE CLOSED AND DISK HOLDER IS OPENED FURTHER SO THAT THE CENTER OF THE HOLDER PLATE DOES NOT OBSTRUCT THE DISK INSERTION PATH (HOLDER OPEN POSITION (2)).					
5	DISK IS DETECTED BY SENSOR AND LOADING ROLLER IS ROTATED IN THE LOADING DIRECTION (FORWARD DIRECTION)			○		
6	THE COMPLETE STORAGE OF THE DISK IN THE DISK HOLDER IS DETECTED AND ROTATION OF THE LOADING ROLLER IS STOPPED					
7	SHUTTER IS CLOSED AND DISK IS HELD ON HOLDER PLATE	○				
8	DRIVE CHASSIS UNIT IS MOVED SO THAT THE HOLDER PLATE IS AT THE HEIGHT OF THE INITIAL POSITION		○			
9	LOADING ROLLER AND DISK STOPPER ARE REMOVED FROM DISK	○				
	DISK SELECTOR IS REMOVED FROM HOLDER PLATE TO ESTABLISH A STATE WHERE THE HOLDER PLATE IS BONDED					
11	DRIVE CHASSIS UNIT MOVES TO HEIGHT OF INITIAL POSITION		○			

FIG. 96

FLOW OF OPERATION DURING DISK PLAYBACK

	OPERATION CONTENT	WORKING MOTOR				
		M1	M2	M3	M4	M5
1	DRIVE CHASSIS UNIT IS MOVED INTO A POSITION PERMITTING THE SELECTION OF A HOLDER PLATE FOR STORING THE DISK TO BE PLAYED BACK		○			
2	DISK SELECTOR IS MOVED TO OPEN THE HOLDER PLATE TO A WIDTH PERMITTING THE INSERTION OF THE LOADING ROLLER (HOLDER OPEN POSITION (1)).	○				
	LOADING ROLLER AND DISK STOPPER ARE MOVED TO HOLD DISK					
	CATCHES OF DISK HOLD LINKS ARE CLOSED AND DISK IS REMOVED BY OPENING THE DISK HOLDER FURTHER (HOLDER OPEN POSITION (2)).					
	DISK HOLDER IS OPENED FURTHER (HOLDER OPEN POSITION (3)) TO INTRODUCE DRIVE BASE					
	TURNTABLE IS INTRODUCED BELOW DISK BY ROTATING THE DRIVE BASE					
	CLAMPER RING IS CLOSED WHILE LIFTING UP DRIVE UNIT AND DISK IS CHUCKED ON TURNTABLE					
	LOADING ROLLER AND DISK STOPPER ARE MOVED TO A POSITION OF NON-CONTACT WITH THE DISK					
	FLOATING BLOCK IS RELEASED TO PUT DRIVE UNIT IN FLOATING STATE					
3	PICKUP IS FED TO INNER CIRCUMFERENCE BY THREAD MOTOR				○	
4	DISK IS PLAYED BACK THROUGH ROTATION					○

FIG. 97

